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INSTITUTE FOR ADVANCED STUDY

Minutes of a meeting of the School of Mathematics held February 9, 1954.

Present: Professors Dyson, Gödel, Montgomery, Morse, Oppenheimer, Pais, Selberg, von Neumann, and Whitney.

1. It was voted to make the following grants for 1954-55:

Frederick Bagemihl	$3200
Alberto P. Calderón	3950
Gert O. Sabidussi	3200
Kurt Strebel	3750

[The Director's office will notify the grantees.]

2. It was voted to reserve $3700 for Dr. Victor Shapiro in case he does not receive a National Science Foundation Fellowship, and $3950 for Dr. Bertram Kostant in case the Institute for Advanced Study is not successful in negotiating a contract in his behalf with the National Science Foundation. [Selberg will see that a suitable proposal is made to the N.S.F. for Kostant.]

3. It was voted to seek a contract with the National Science Foundation in behalf of Dr. William W. Boone, in the meantime reserving a grant of $3700 for him in case the contract is not granted. [Morse will write to Boone and see that a suitable proposal is made to the N.S.F.]

4. It was voted that in case the contract with the National Science Foundation in behalf of Kostant or of Boone is negotiated, Dr. Stephen Diliberto is to be given a grant from the Institute for Advanced Study up to $4000 to cover his expenses at the Institute while on sabbatical leave. [Morse will write Diliberto.]

5. Professor Whitney is to write Dr. Leon Ehrenpreis to ask him whether he is willing that the present proposal to the National Science Foundation in his behalf from Johns Hopkins University be replaced by a proposal from the Institute for Advanced Study so that he may study here next year.

6. It was voted to make an application to the National Science Foundation in behalf of Dr. Josephine Mitchell in case she still wishes this done. [Montgomery is asked to take the necessary steps to make the application.]

7. Membership was voted for Dr. Alfred Frölicher for the academic year 1954-55, and for Mr. Keith Household for the calendar year 1955. [The Director's office will notify.]

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8. It was voted to reject the application of Dr. Clarence F. Stephens for a grant for 1954-55. [Morse will write.]

9. It is expected that Dr. Eugene Schenkman will be taken care of under the contract proposed to the Office of Ordnance Research.

10. Professor von Neumann is of the opinion that Mr. Nils Aall Barricelli should receive support next term from some other source.

11. From the remaining applicants, the following three groups were selected. The groups are in order of preference but the order in each group is not significant.

Group I. Feldman, Weiss, Yang, Ehrenpreis, Igusa, Reiner, Kuranishi.

Group II. Uehara, Susuki, Tamagawa, Swift, Purcell, Mitchell, Schoenfeld, Nijenhuis.

Group III. Barricelli, Fox, Gillis.

12. No action was taken on the applications of Charles W. Curtis and Edgar Reich because their rank as numbers 3 and 4 in the National Science Foundation list seems to assure them of National Science Foundation Fellowships.

Marston Morse
Secretary

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INSTITUTE FOR ADVANCED STUDY

Minutes of a meeting of the School of Mathematics held April 6, 1954.

Present: Professors Gödel, Montgomery, Morse, Selberg, von Neumann, and Whitney.

1. Declinations will be sent to the following applicants: Azumaya, Barricelli, Chen, DeLeeuw, Fox, Goffman, Katsurada, Lashof, Lindsay, Marlow, Suzuki, Uehara, Yoshizawa. [Morse will write.]

2. Professor Irving Segal is to receive $2,000 from Professor Veblen's assistant's fund. The School of Mathematics voted to commit $1,000 additional in a reservation for his benefit with the expectation that another $1,000 can be committed in a few weeks. [Morse will write.]

3. Dr. Jun-ichi Igusa was voted membership for the year 1954-55 with a grant-in-aid of $3,950. [The Director will notify formally; Morse informally.]

4. Membership for the fall term, 1954-55, was voted to Dr. Georges Papy with a grant-in-aid of $3,250. [The Director will notify formally; Morse informally.]

5. Dr. Albert Nijenhuis is to receive $2,000 from Professor Veblen's assistant's fund for the spring term 1954-55. The School of Mathematics voted to grant him an additional $1,200 and to extend his membership to the academic year 1954-55. [The Director will write.]

6. Membership was voted to Dr. Leonard Tornheim for the academic year of 1954-55 with the hope that he will be successful in obtaining financial aid elsewhere. [Morse will write informally; the Director formally.]

7. Professor Sigekatu Kuroda is of interest to Professor Gödel who is considering making his assistant's fund available for a membership for him.

8. If Dr. Irving Reiner does not receive a National Science Foundation fellowship, Professor Selberg wishes to use his assistant's fund to make a membership possible for him.

9. Membership for the academic year 1954-55 was voted to Dr. Joseph Gillis with the understanding that he will receive $4,000 from a contract at the Electronic Computing Project. [The Director will write formally; von Neumann informally.] [See note on next page.]

10. Dr. Lowell Schoenfeld and Dr. Jonathan D. Swift were voted membership for the academic year 1954-55, with the understanding that they will receive sabbatical aid. [The Director will write formally; Morse informally.]

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11. Professor von Neumann will convert his assistant's fund for a grant-in-aid to Dr. Hirotada Anzai who was voted membership for the academic year 1954-55. [The Director will notify.]

12. It was reported that the French mathematician, Jean-Pierre Serre, is interested in coming here. The School wishes Morse to sound him out without making any commitment in the initial letter with the understanding that if he can come for the fall term, 1955-56, he would receive a grant of $3,250, and if he can come for a year, a grant of $6,000. [Morse will write.]

13. The National Science Foundation Fellows who have requested membership, and to whom membership for the academic year, 1954-55, is voted are Victor L. Shapiro (Institute for Advanced Study), Edwin Weiss (University of Michigan, Ann Arbor, Michigan), and Jacob Feldman (50 West 75th Street, New York, N. Y.). [The Director will notify.] The National Science Foundation Fellows who had not been voted membership were voted membership if and when they request it.

14. The mathematicians who are listed for further consideration, if and when further money becomes available, are as follows: Kuroda, Pursell, Schoenfeld, Tamagawa, Yang, Heller, Swift.

15. It is hereby reported that since the last School meeting a mail vote was taken and it was decided to reserve $3,200 for Dr. Leon Ehrenpreis in case the proposal for a National Science Foundation contract in his behalf is not successful.

Marston Morse
Secretary

NOTE: Anyone receiving a salary cannot be considered a member of the School of Mathematics due to the interpretation of the income tax regulations. Although Gillis was voted membership by the Faculty he is to be paid from a contract at the Electronic Computer Project and the Director's letter will state that he has been granted membership in the Electronic Computer Project with privileges of the Institute.

April 30, 1954

This statement from the Director's Office has been somewhat modified so that members on government contracts will continue to be members.
October 1, 1954

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INSTITUTE FOR ADVANCED STUDY

Minutes of a meeting of the School of Mathematics held October 8, 1954.

Present: Professors Beurling, Dyson, Gödel, Montgomery, Morse, Oppenheimer, Pais, von Neumann, and Whitney.

1. It was agreed that the Director should take up the matter of the renewal of Professor Jean Leray's present contract which expires on January 1, 1956 with the expectation that Leray will accept a similar contract for five additional years.

2. It was agreed that the Director would invite Léonce and Yvonne Fourès to spend the Fall Term of the year 1955-56 here with a total grant of $4,000 to be divided equally between the two Fourès. The question as to whether we should ask the State Department to examine the possibility of their obtaining visas, as well as the desirability of asking the Fourès themselves their opinion on this matter, was discussed. The final decision was that it would be best to make no approach to the State Department or to the Fourès with regard to visas. [Morse will write informally; the Director formally. M. and Mme. Fourès' address is Faculté des Sciences, Université de Marseille, Marseille, France.]

3. If Professor Gustave Choquet indicates his desire to come to the Institute next fall it was voted to offer him membership and a grant of $4,000 for that period. An approach to a government agency to obtain such an amount was authorized with the understanding that $4,000 of the Institute's money would be reserved. [Letter received on October 11, 1954, indicates that Choquet intends to come. Morse will write informally; the Director formally. Professor Choquet's address is 11, r. Colbert Versailles (S-et-O), Paris, France.]

4. It was voted to grant membership for the academic year 1955-56 to G. P. Hochschild, Professor of Mathematics at the University of Illinois, and to reserve $3,500 to enable him to come to the Institute during 1955-56 in case he does not receive a Guggenheim Fellowship. [Montgomery will write informally; the Director will notify him of his membership formally.]

5. It was voted to grant membership for the academic year 1955-56 to Raoul Bott, Assistant Professor of Mathematics at the University of Michigan, and to reserve $6,000 for him in case this amount or a larger amount cannot be obtained for Bott's support from the Office of Scientific Research. [Morse will write informally; the Director will notify him of his membership formally.]

6. Membership was voted for the academic year 1955-56 to Paul Olum, Professor of Mathematics at Cornell University, and it was voted to reserve $3,500 to enable him to spend the year here in case he does not receive a Guggenheim

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Fellowship. [Whitney will write informally; the Director will notify him of his membership formally.]

7. It was voted to reserve $4,000 to aid Professor Saunders MacLane to come here to supplement his half pay from the University of Chicago in case he does not receive a Guggenheim Fellowship or a Guggenheim is not adequate. It is understood that only such part of the $4,000 would be used as would be necessary to enable MacLane to live at Princeton without financial loss. It was agreed that an appropriate application could be made to a government agency for a grant in MacLane's behalf. [As of October 11, 1954, MacLane has indicated his intention of spending the year in Europe.]

8. It was voted to offer Hans Zassenhaus, Professor of Mathematics at McGill University, $5,500 and membership to enable him to spend the academic year 1955-56 at the Institute. [Montgomery will write informally; the Director formally.]

9. It was voted to offer a grant of $200 from the Visitors' Fund to Dr. Wilhelm Klingenberg to spend a week or two at the Institute following his fall term with Hlavatý at Indiana this year. [Morse has written.]

10. It was voted to offer membership and a grant of $1,000 to Professor B. Amirà to enable him to spend two or more months of the second term of this year, 1954-55, at the Institute. [Morse will write informally; the Director formally. Professor Amirà's present address is c/o Alamac Hotel, Broadway at 71st St., New York 23, N. Y.]

11. It was voted to grant Dr. Lewis D. Kaplan membership in the School of Mathematics for the current year, 1954-55. [The Director will write.]

12. It was agreed that up to $50 could be taken from the School of Mathematics Visitors' Fund to cover the expenses of Dr. Kiyoshi Noshiro if and when he visits the Institute. [Morse will write.]

13. Professor Morse conducted a poll of the mathematicians on the question of whether it was desirable to accept a contract with the Office of Scientific Research for the benefit of S. P. Diliberto. The amount proposed by an executive of the O.S.R. is of the order of $2,000. All the mathematicians on the Faculty were reached by telephone and agreed with this step.

Marston Morse
Secretary

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Minutes of a meeting of the School of Mathematics held November 19, 1954:

Present: Professors Beurling, Dyson, Montgomery, Morse, Oppenheimer, Pais, Selberg, von Neumann, and Whitney.

1. It was voted to recommend that Professor Kunihiko Kodaira receive membership and a grant of $4,000 for the second term of each of the next five years (three years if the University so prefers) starting in the spring of 1956. It is understood that Princeton University will make a similar grant for the fall terms. It was recommended that the $4,000 be obtained under a contract with the National Science Foundation for the next two years. (Morse will write Kodaira informally.)

2. It was voted that an application for a contract to the National Science Foundation to cover the next two years be made, with the total amount of the contract coming to approximately $30,000. The following mathematicians were approved as suitable persons for membership and to be included under this contract.

Name	Amount suggested	Duration
Boone, William W.	$5,000	One year
Kodaira, Kunihiko	4,000	Two years, one term each
Reiner, Irving	5,500	One year
Rosenberg, Alex	5,500	Two years, if possible
Yang, C. T.	4,500	One year
Secretarial	1,000	Each year
Overhead (15 percent of above)	3,780	
Total	$29,280	

3. It was voted to offer Winfield R. Utz of the University of Missouri a provisional grant of $1,000 and membership for the academic year 1955-56 provided he can get half of his salary from Missouri and a residue of approximately $1,800 by a contract between the Air Force and the University of Missouri. (Professor Morse will write informally; the Director need not write until further confirmation is obtained.)

4. It was voted to offer Adolph W. Goodman of the University of Kentucky membership for the academic year and a grant of half his salary understanding that the other half of his salary will be paid by the University of Kentucky. (Morse will write informally; the Director can wait for confirmation of the arrangements.)

5. It was voted to offer Robert Steinberg of the University of California, Los Angeles, membership and a grant of $2,000 understanding that he will receive 2/3 of his salary from the University of California. (Morse will write informally; the Director can wait for confirmation of the arrangements.)

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6. It was voted to offer Ernst G. Straus of the University of California, Los Angeles, membership and a grant of $2,000 understanding that he will receive 2/3 of his salary from the University of California. (Morse will write informally and the Director can wait for confirmation of the arrangements.)

Marston Morse
Secretary

It is hereby reported that since the last meeting the following actions were taken by mail vote:

1. Professor T. R. Bachiller of the University of Madrid has been invited to the Institute for the second term of this academic year with membership and a grant of $2,500.

2. Professor J. C. Burkill of Cambridge, England, has been voted membership for the fall term of 1955-56 and has been invited to come with a grant of $2,000.

3. Professor K. Yosida has been invited to extend his stay during the spring term of this year with a grant of $1,000 (giving him a total grant of $3,000 for the academic year).

For information:

1. Dr. C. T. Yang has been notified by the University of Illinois that their contract proposal to the National Science Foundation was successful, and he is accepting their grant rather than the grant of the Institute ($3,200) for the current academic year.

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Minutes of a meeting of the School of Mathematics held December 8, 1954:

Present: Professors Beurling, Dyson, Montgomery, Morse, Oppenheimer, Pais Selberg, von Neumann, and Whitney.

1. The questions which have arisen concerning the Electronic Computer Project and Dr. Charney were discussed at great length. No action was taken. The question as to the future of the Electronic Computer Project was left open.

2. It was voted unanimously to recommend Chen Ning Yang as Professor of Physics. In an informal exploration of views on George Placzek, it was clear that there was a strong division of opinion, although a majority favored the action.

3. On the basis of a letter Jean-Pierre Serre has written recently containing a conditional acceptance of our offer, it was agreed that Serre should be offered a grant of $7,000 and membership provided he must leave around the first of March. It is understood that he could take a leave of absence for two weeks in the fall to go to France if he finds it necessary. Serre is also to be offered the alternative of the full $8,000 grant provided he can stay until sometime in the first week of April 1956. [Morse will write Serre of these alternatives. The letter from the Director might be deferred until arrangements are somewhat more determined.]

4. It was agreed to offer Jacques Deny membership and a grant of $6,000 for the academic year 1955-56. At Professor Beurling's suggestion $4,000 of this grant will be made available from Beurling's assistant's fund. A copy of an exploratory letter from Morse to Deny will go to Dr. Pierre Donzelot with the understanding that he will seek to obtain from the Minister of Education the most favorable conditions for a leave of absence for Deny. [The formal letter from the Director might be deferred for the time being.]

5. It was voted to make a grant of $6,000 to Harish-Chandra with membership for the academic year 1955-56. [The Director can write formally at once.]

6. It was voted to offer Hans Bremermann membership and a grant of $4,000 for the academic year 1955-56. [The formal letter from the Director can go immediately.]

Marston Morse

Secretary

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Minutes of a meeting of the School of Mathematics held January 12, 1955:

Present: Professors Beurling, Dyson, Montgomery, Morse, Oppenheimer, Selberg, and Whitney.

1. The principal business of the meeting was to determine the list of mathematicians to be recommended to Army Ordnance for a continuation of the Institute's present contract with Ordnance. It was voted to put Friederich Mautner first on this list with a request for $3,000. The case of Kiyosi Itô is special and it was agreed to include him on the list for the second term with an application for $2,500 and, in case this application is unsuccessful, to guarantee him a grant from the Institute of $2,000. The mathematicians to be included on this list are as follows:

F. V. Atkinson	$5,000
D. G. Bourgin	5,000
E. A. Coddington	3,500
Kiyosi Itô (Term II)	2,500 (or $2,000 from Institute)
Friederich Mautner	3,000
E. G. Straus	2,500 (or $2,000 from Institute)

It was agreed that Pierre Conner is worthy of being included in the list if some of the above men drop out. [Morse will ascertain the willingness of the above six mathematicians to accept grants by way of a contract between the Institute and Army Ordnance.] [Bourgin answered that he will not be available next year. Coddington suggested the amount of $3,500 instead of estimated $3,000.]

2. Serge Lang was given a very high rating as a mathematician, but it was thought more appropriate to consider him later. [Will not be available.]

3. It was voted to grant membership to Joshua Chover for the academic year 1955-56. [The Director will notify Chover.]

4. The case of R. D. Anderson was presented by Montgomery. Final consideration was postponed until later.

Marston Morse
Secretary

Report on actions taken since last meeting:

1. The grant for this year to Hirotada Anzai was raised by $250 to help in the expenses of his two operations and hospitalization this past fall, when it was thought he would remain for the rest of the year. However, when

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he departed on January 7, 1955, the total expenditure for his grant was left at $2,399.

2. Dr. A. W. Goodman has been offered membership and a grant of $2,900 for the academic year 1955-56.

3. Dr. Jean-Pierre Serre has been offered membership and a grant of $7,000 to $8,000 for the academic year 1955-56. The final amount of this grant will be determined by whether Dr. Serre finds it possible to stay only to March 1956 or into April 1956. [Dr. Serre has accepted.]

4. Professor J. Wallace Givens has been notified of his Institute membership for the spring term, 1954-55, during the period of his National Science Foundation contract with the University of Tennessee.

5. The reservations for William W. Boone of $3,700 and for Bertram Kostant of $3,950 in the current year have now been made definite grants for these two men. The total sum made for Dr. Kostant has been raised by $250 because of the recent arrival of another child in his family.

6. Mr. Henry Stommel was invited to membership in the Institute for Advanced Study for the second term of the current academic year, 1954-55.

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Minutes of a meeting of the School of Mathematics held March 4, 1955:

Present: Professors Beurling, Dyson, Gödel, Montgomery, Morse, Oppenheimer, Selberg, von Neumann, and Whitney.

1. It was voted to make reservations for William W. Boone of $3,700 and C. T. Yang of $3,200 provided funds do not become available for them through the National Science Foundation contract. [Morse will notify informally.]

2. Membership for the academic year 1955-56 was voted to Tsuneo Tamagawa with a grant of $3,700 and to Tadao Tannaka with a grant of $4,200. [The Director will notify them formally; Morse informally.]

3. Ioan M. James was voted membership for the academic year 1955-56. He has received a Commonwealth Fund Fellowship extension for next year. [The Director will notify formally.]

4. Mrs. Maria A. W. Steinberg was voted membership for the academic year 1955-56. [The Director will notify formally.]

5. The names proposed for the new Office of Scientific Research contract application are:

Eugenio Calabi	$5,000
Pierre E. Conner, Jr.	3,700
Shigeo Nakano	5,000
Maurice Sion	3,700

with Jacqueline L. Penez a possible alternate with a salary of $3,700. [Morse will correspond informally with Calabi, Conner, Nakano, and Sion.]

6. It was agreed that Edwin Hewitt and Jacqueline L. Penez might be kept in mind in connection with the place not yet filled in the proposed Office of Ordnance Research contract.

7. The principal is to be followed that applicants for National Science Foundation fellowships will be granted membership conditional on their obtaining this fellowship, and will be notified of this fact if such information is requested or needed before official notice of the award is made. Applicants for NSF fellowships, who are also applicants for membership, are as follows:

R. C. Blanchfield	W. R. Scott
H. C. Davis	M. L. Tomber
M. P. Epstein	Edwin Weiss
Jacob Feldman	J. V. Whittaker
J. M. G. Fell	

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[The Director will answer Fell's request for information on this point. Subsequent to the meeting such a letter was requested by, and sent to Louis Auslander.]

8. Membership for the academic year 1955-56 conditional on his receiving the Commonwealth Fund Fellowship for which he has applied was voted for John H. Williamson. [The Director will notify formally.]

9. Professor Selberg mentioned that he is planning to have Walter Roelcke invited to be his assistant for the academic year 1955-56.

10. The order in which the remaining mathematicians are to be preferred, in case further funds become available, is as follows:

(1) T. Nakayama
(2) A. S. Shapiro
(3) Georg Kreisel
(4) H. B. Griffiths
(5) J. C. E. Dekker
(6) S. E. Dyer, Jr.
(7) J. L. Penez
(8) J. R. Shoenfield

11. In resumé:

The Director will notify formally:

Dr. Tsuneo Tamagawa, Dept. of Math., Tokyo University, Tokyo, Japan
Membership for year and grant of $3,700.

Prof. Tadao Tannaka, Mathematical Inst., Tôhoku Univ., Sendai, Japan
Membership for year and grant of $4,200.

Dr. Ioan M. James, 2317B Carleton Street, Berkeley 4, California
Membership for year on Commonwealth Fund Fellowship.

Dr. Maria A. W. Steinberg, 711 Muskingum Ave., Pacific Palisades, California
Membership for year.

Dr. James M. G. Fell, Athenaeum, 551 South Hill Ave., Pasadena 5, California
Membership for year conditional on National Science Foundation Fellowship.

Dr. John H. Williamson, Dept. of Pure Math., The Queen's Univ., Belfast, North Ireland
Membership for year conditional on Commonwealth Fund Fellowship.

Dr. Samuel Kaplan, Dept. of Math., Wayne University, Detroit 1, Michigan
Refusal of membership on grounds of lack of facilities.

Prof. Tsurusaburo Takasu, Math. Dept., Yokohama University, Yokohama, Japan
Refusal of grant-in-aid.

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Professor Morse will notify informally:

Dr. Tsuneo Tamagawa Professor Tadao Tannaka	grants-in-aid
Dr. William W. Boone Dr. C. T. Yang	reservations
Mr. Pierre E. Conner, Jr. Dr. Maurice Sion Professor Eugenio Calabi Dr. Shigeo Nakano	OSR contract application

Professor Morse will write the following formally:

Dr. Samuel G. Bourne	denying membership
Dr. Johannes André Dr. Gorô Azumaya Dr. P. L. Butzer Dr. Jun-ichi Igusa Dr. Yoshie Katsurada Dr. Josephine Mitchell Dr. Joseph Putter Mr. Rimhak Ree Dr. Lowell Schoenfeld Dr. Michio Suzuki Dr. Cengiz Uluçay	no grant available

Marston Morse
Secretary

The following action has been taken since the last meeting of the School:

1. Conditional membership was granted to the following:

   Y. W. Chen for fall term, 1955-56, if Air Force support is obtained.

   Gerhard K. Kalisch for academic year, 1955-56, if National Science Foundation fellowship is obtained.

2. Membership was granted to the following:

   Ernesto Corominas for spring term, 1954-55.

   C. D. Papakyriakopoulos for academic year, 1955-56.

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Chaim Pekeris for fall term, 1955-56, or fall term, 1956-57.

Isadore M. Singer for academic year, 1955-56.

3. Membership for academic year, 1955-56, with grant-in-aid made possible by the transfer of certain funds:

   John M. Danskin, Jr., $3,200 from Professor Morse's assistant's funds.

   James Eells, Jr., $4,200 from Professor Whitney's assistant's funds.

4. Membership for academic year, 1955-56, with grant-in-aid:

   Richard D. Anderson, $2,800.

   Peter Roquette, $4,250.

5. Membership with salary provided by an Office of Scientific Research contract:

   Raoul Bott for academic year, 1955-56, $8,000.

   Gustave Choquet for fall term, 1955-56, $4,000.

   Allan D. Martin for academic year, 1955-56, $5,000.

6. Alfred V. Froelicher was invited to be Professor Veblen's assistant at a salary of $3,700 for the academic year, 1955-56.

7. Georg Unger was invited to be a visitor from April to October 1955.

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Actions taken by mail vote since meeting on March 4, 1955 were as follows:

1. Memberships were granted to the mathematicians listed with funds from the sources shown:

   M. F. Atiyah, academic year, 1955-56, Commonwealth Fund Fellow

   P. J. Kelly, academic year, 1955-56, Ford Foundation Fellow

   F. E. Browder (later declined), Guggenheim Foundation

   Edwin Hewitt, academic year, 1955-56, Guggenheim Foundation

   R. C. Blanchfield, academic year, 1955-56, National Science Foundation Fellowship

   Jacob Feldman, academic year, 1955-56, NSF Fellowship

   W. R. Scott, academic year, 1955-56, NSF Fellowship

   S. Chowla, second term, 1955-56, University of Colorado Faculty Fellowship

   G. K. Kalisch, academic year, 1955-56, other outside funds

2. Contracts were completed and memberships granted to following:

   Office of Naval Research

   Lewis D. Kaplan, academic year, 1955-56

   Office of Ordnance Research

   F. V. Atkinson, academic year, 1955-56, at salary of $5,000

   Kiyosi Itô, second term, 1955-56, at $2,500

   F. I. Mautner, academic year, 1955-56, at $3,000

   I. M. Singer, academic year, 1955-56, at $2,000

   [E. A. Coddington made other commitments and declined proposal.]

   Office of Scientific Research

   E. Calabi, academic year, 1955-56, at salary of $5,000

   P. E. Conner, Jr., academic year, 1955-56, at $3,700

   S. Nakano, academic year, 1955-56, at $5,000

   Maurice Sion, academic year, 1955-56, at $3,700

3. Membership and grants-in-aid were offered as follows:

   S. Kuroda, calendar year, 1956, $4,200 [Professor Gödel's assistant's fund converted to grant.]

   T. Nakayama, second term, 1955-56, at $2,000

   P. Olum, academic year, 1955-56, at $3,500

   G. L. A. Papy, first term, 1955-56, at $3,250

   A. S. Shapiro, academic year, 1955-56, at $4,200

   W. R. Utz, academic year, 1955-56, at $1,000 supplementing his Office of Scientific Research Contract with the University of Missouri

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4. The following postponements to 1956-57 were requested:

A. W. Goodman, academic year, with grant of $2,900

G. P. Hochschild, academic year, with grant of $500 supplementing his Guggenheim Fellowship. [This has not yet been voted by the Faculty.]

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Minutes of a meeting of the School of Mathematics held July 15, 1955:
Present: Professors Gödel, Montgomery, and Selberg.

1. It was decided to keep open for Irving Reiner a place on the Office of Ordnance Research contract with a salary of $3,500 (which amount became available through the resignation of E. A. Coddington), so that he may continue at the Institute at least for one term, in case the National Science Foundation contract for him does not materialize.

2. It was decided to propose Georg Kreisel for a place on the Office of Ordnance Research contract with a salary of $2,000 (which amount had been uncommitted to now) and to supplement this salary with $2,000 from Institute funds. This decision was taken in view of the fact that Kreisel is the next one on the list agreed upon by the Faculty, and that Institute funds sufficient for a grant-in-aid, if at all, will not become available before sometime in August.

Kurt Gödel
Acting Secretary

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Minutes of a meeting of the School of Mathematics held September 29, 1955:

Present: Professors Dyson, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Whitney, and Yang.

1. It was agreed that the minimum grants from the Institute to members who are mathematicians effective with the current academic year shall be as follows:

Single man or woman	$3,700	(Formerly	$3,200)
Married	4,200	"	3,700
Married with one child	4,500	"	3,950
Two or more children	4,700	"	4,200

The mathematicians this year whose grants will be affected by this and the amounts of their revised grants are as follows:

From regular Grants-in-Aid Fund:

Hans Bremermann, academic year 1955-56	$4,200
Léonce Fourès, Term I, 1955-56	2,350
Yvonne Fourès, Term I, 1955-56	2,350
Georg Kreisel, academic year 1955-56 (also $2,000 from Office of Ordnance Research)	2,200
T. Nakayama, calendar year 1955	4,350
Term II, 1955-56	2,350
Peter Roquette, academic year 1955-56	4,500
A. S. Shapiro, academic year 1955-56	4,700
T. Tamagawa, academic year 1955-56	4,200
T. Tannaka, academic year 1955-56	4,700

From Assistants Fund transferred to Grants-in-Aid:

John M. Danskin, Jr., academic year 1955-56	$3,700
James Eells, Jr., academic year 1955-56	4,700
S. Kuroda, calendar year 1955	4,450
calendar year 1956	4,700

From Assistants Fund:

Alfred Froelicher, academic year 1955-56	$4,200
M. Kuranishi, academic year 1955-56	3,700
W. O. P. Roelcke, academic year 1955-56	3,700

[The Director will notify the mathematicians affected.]

2. It was voted to offer Professor J. C. Burkill a salary of $2,500 in place of his present grant from the Institute for the fall term, 1955-56, taking the $2,500 from the amount reserved for Coddington under the Office of Ordnance Research contract. [Professor Burkill and the Office of Ordnance Research will be consulted by Professor Morse.]

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3. It was agreed that it would be desirable to offer the $5,000 out of the Office of Scientific Research contract which had been ear-marked for Professor Calabi to Dr. Hans Bremermann for the academic year 1955-56 providing he and the Office of Scientific Research agree. [Professor Morse will confer with Dr. Bremermann and the O.S.R.]

4. It was voted to make a grant to Dr. Alex Rosenberg of $500 for the current academic year, 1955-56, to supplement the grant of $4,500 which he expects to receive from the National Science Foundation through Northwestern University. [The Director will notify.]

5. Professor Morse was authorized to start negotiations with the Office of Scientific Research for a contract for next year of approximately the same size as the contract of this year with Professors Beurling and Morse continuing as principal investigators.

6. Membership was voted for Professor Maurice Heins of Brown University for the academic year 1956-57. [The Director will please notify Professor Heins of this.]

7. It was voted that Professor Morse should write to Professor J. E. Littlewood expressing the desire to have Littlewood here next year, 1956-57, and asking him whether he would like to stay one or two terms. A grant of the order of $3,000 a term seems appropriate, but would not be suggested in the first letter. [Professor Morse will write.]

8. It was voted to reserve a grant of $4,700 for Professor Edwin Moise for the academic year 1956-57 understanding that he will apply for a Guggenheim and that if he receives the Guggenheim he would receive from us the difference between $4,700 and the amount paid by the Guggenheim. [Professor Montgomery will write informally.]

9. It was generally agreed that it would be appropriate to comply with the request of the French analyst, Hubert Delange, to come here during the academic year 1956-57, offering him a grant of $5,000 for the year or possibly $6,000 if he comes under a contract. He is married and has two children. However, it is understood before final action is taken that the opinion of Professor Beurling will be sought.

10. Dr. C. D. Papakyriakopoulos was granted membership for the academic year 1956-57. [The Director will notify.]

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11. Professor G. P. Hochschild was granted membership for 1956-57 together with a grant-in-aid of $1,000 to supplement his half salary from the University of Illinois and a Guggenheim which he will receive during that year. [Professor Montgomery will first write informally; the Director will write formally after an answer is received.]

12. Dr. Edwin Weiss was granted a membership in the Institute for the academic year 1956-57 during which he will receive the stipend of a National Science Foundation fellowship. [The Director will notify Dr. Weiss of membership.]

13. Professor Morse was authorized to write Professor George Temple of Queen's College, Oxford, to ask whether he would like to spend a term or the year here during the academic year 1956-57. It was voted that a grant of from $6,000 to $7,000 a year would be appropriate. [Professor Morse will write.]

14. It was agreed that the distribution of the grant from the National Science Foundation during the present year would be as follows:

K. Kodaira, Term II	$4,000
William W. Boone, academic year	5,000
Irving Reiner, academic year	5,500

Half of the total grant of $33,000 for two years is $16,500. When the above grants have been made there will remain of this $16,500 $2,000, which is very close to the 15 percent overhead of the $14,500 made in grants. [The Director will notify the three mathematicians, Kodaira, Boone, and Reiner.]

15. In accordance with the vote taken in a School Faculty meeting on March 4, 1955, Dr. C. T. Yang will receive a grant of $3,200 (plus the $500 raise currently being made, thus the total is $3,700) since he will not receive a salary under the National Science Foundation contract, for the academic year 1955-56. [The Director will notify.]

16. It was voted to offer Professor J. L. Doob of the University of Illinois an amount equal to half of his salary under a government contract if such a contract materializes. This would enable him to spend the year of 1956-57 at the Institute. It is understood that he would be on sabbatical leave and would receive half of his salary from the University of Illinois. [Professor Montgomery will write.]

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17. It was agreed that Professor Morse should obtain the opinion of Professor Zassenhaus concerning Dr. Samuel Bourne. Zassenhaus reports that he has not read any recent papers of Bourne and will inform us of his opinion when he has done so.

Marston Morse
Secretary

After this meeting it was unanimously voted that Professor Burkill's salary under the Office of Ordnance Research contract should be raised by $500 making his total salary for Term I, 1955-56, $3,000.

Action taken subsequent to last meeting:

1. It was learned that Dr. Richard C. Blanchfield, who had membership for the academic year 1955-56, had died on July 25, 1955.

2. Dr. Alex Rosenberg notified Professor Montgomery that he would be able to come for the academic year 1955-56 under a National Science Foundation contract with Northwestern University. His membership letter was sent to him on this basis.

3. On August 22, 1955, Professor Morse received a telephone call from Dr. Raymond J. Seeger, Director of the Physical Sciences Division of the National Science Foundation. Besides giving Professor Morse the information on the two-year contract the N.S.F. is prepared to enter into with the Institute he said:

(1) Apply early as August next time and inform Dr. Cohen in advance that the application is on its way;

(2) Apply for as much as two or three years at a time;

(3) Make it clear in the proposal that this is more than a fellowship program. Give a scientific progress report sometime before the Institute applies for the next contract in August of 1956. Application should be made in August 1956 for the contract which should start September 1957.

Dr. Cohen has said recently it might be well to make the application for the academic year 1957-58 in the spring of 1956.

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Minutes of a meeting of the School of Mathematics held October 26, 1955:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg, and Whitney.

1. It was reported by Professor Beurling that Professor Lars Ahlfors would visit the Institute in the spring term of this year. It was agreed that Professor Morse should write him a letter of welcome suggesting that we would be glad to make him a member if he were to stay some length of time.

2. Professor Selberg reported that Professor Chowla will not be here the second term of this year and that he is interested in coming to the Institute for a term in 1956-57. Professor Selberg will write Professor Chowla to find out more explicitly which term he will come and what his needs are.

3. The case of Paul Lorenzen of the University of Bonn was brought up by Professor Selberg. It is understood that Professor Gödel will examine Lorenzen's papers and report on them.

4. It was voted to allow William W. Boone $100 travel money from the National Science Foundation contract so that he may attend the meeting of the Mathematical Association of America in Houston, Texas, to give an invited address. [Morse will notify him and Dr. Oppenheimer will take the necessary steps to pay Boone this $100.]

5. It was voted to grant Irving Kaplansky of the University of Chicago membership for next year, 1956-57. [The Director will write.]

6. Professor Beurling reported on Hubert Delange's papers. It was voted to offer Delange a grant of $2,500 for a term of 1956-57. [Morse will write informally first.]

7. It was voted to offer Professor and Mme. Pierre Lelong a grant of $5,000 from the Institute or, preferably, a grant of $6,000 under an Office of Scientific Research contract, if such can be arranged. [Morse will write informally first.]

8. The recommendation of Professor Beurling that John Wermer of Brown University be invited here next year was favorably received. It was understood that Beurling will write Wermer to see whether he can come or not, suggesting an arrangement whereby Wermer is paid under an O.S.R. contract if such can be arranged, or directly by the Institute in the contrary case. The amount to be paid in the two cases is to be such that the net amount received by Wermer would approximately equal his salary, taking account of taxes.

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9. The case of Samuel Bourne was discussed. Before action is taken the opinion of Professor Nathan Jacobson is desired.

10. It was agreed that a contract would be proposed to the Office of Scientific Research for the next two years, 1956-57 and 1957-58, the amount to be about $42,000 a year. The men who could be named under this contract, and the approximate salaries under the contract, are tentatively as follows:

a. For next year, 1956-57, and on the contract at present:

Hans Bremermann	$5,000
Pierre Conner	3,700 - 4,000
Shigeo Nakano	5,000
Maurice Sion	3,700 - 4,000

b. For next year, 1956-57, new men might include:

John Wermer	$6,000
M. and Mme. P. Lelong, Term I	6,000

c. The following year, 1957-58:

Eugenio Calabi	$6,000
George Temple	8,000

11. It was understood that the commitment to the Lelongs and Professor George Temple would be firm regardless of whether the contract materializes or not. The amount of the grant from the Institute proposed for Temple, if the contract does not materialize, would be around $6,500. [Morse will attempt to make the preliminary arrangements.]

12. Professor Montgomery reported that G. D. Mostow is interested in obtaining a grant from the Institute for next year. It was agreed that Montgomery would write to Mostow initially in the sense that the Institute would pay half of Mostow's salary suggesting that Mostow apply for a Guggenheim, for one of the new Senior National Science Foundation Fellowships, or, if possible, obtain a sabbatical leave with half pay.

13. In the case of Kuo-Tsai Chen of Hong Kong it was agreed that Professor Montgomery should write him concerning his intensions as to remaining in America if he comes here. Dr. Oppenheimer will prepare a first draft of this letter.

Marston Morse
Secretary

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Actions taken since last meeting are as follows:

1. Dr. Hans Bremermann was granted, and he accepted, a salary of $5,000 under the Office of Scientific Research contract in lieu of the $4,200 Institute grant, for the academic year 1955-56.
2. Dr. J. L. Doob replied to an informal invitation for next year that he will be going to Europe and so can not come to the Institute.

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Minutes of a meeting of the School of Mathematics held November 7, 1955:

Present: Professors Beurling, Dyson, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Whitney, and Yang.

1. It was voted to grant membership to the psychologist Dr. Leo Postman for the academic year 1956-57. [The Director will notify.]

2. There was discussion of mathematicians suitable for appointment as Professor of Mathematics at the Institute for Advanced Study. It was agreed that Professor Morse should sound out Jean-Pierre Serre a little more formally as to his willingness to accept a professorship at the Institute if such were voted. A meeting is to be held as soon as definite information is obtained from Serre. At such a meeting the discussion will be resumed of the entire list. Two points to be brought up are the desirability of Professor Selberg writing Professor Hermann Weyl as to the availability of Armand Borel, and of the desirability of asking Andrew Gleason to spend a year down here quite independent of our search for a new professor.

3. It was voted that G. D. Mostow might come under our proposed contract with the Office of Scientific Research inasmuch as the $6,500, of which he has need, is at present derived from a contract with the Office of Scientific Research. Professor Montgomery will write him for his approval of this step, pointing out that this contract is proposed and not made as yet.

4. Lars Ahlfors writes that he will not be here long enough in this coming spring term to be a member but would like an office when he arrives around the first of April. Miss Underwood states that this will be entirely possible and Professor Morse has written him to this effect.

Marston Morse
Secretary

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Official action taken subsequent to School meeting of November 7, 1955:

1. Maurice Auslander was invited officially on November 7, 1955 to membership for the academic year 1956-57 during his National Science Foundation Fellowship.

2. On November 22, 1955 John Wermer was invited officially to membership for the academic year 1956-57 with a salary of $6,000 under the Office of Scientific Research contract, or, if this contract fails to go through, a grant-in-aid of $5,000 from the School of Mathematics

3. Mary-Elizabeth Hamstrom was invited officially on November 25, 1955 to membership for the academic year 1956-57 conditional on her receiving a National Science Foundation Fellowship.

4. T. Gerald Room was invited officially on November 25, 1955 to membership without a grant-in-aid for the academic year 1956-57.

5. The dues of the Institute for Advanced Study for Institutional Membership in the American Mathematical Society for the years 1956 through 1958 were approved by the School of Mathematics and the Director at $2,050 per year. On November 28, 1955 Professor Morse notified Dr. John H. Curtiss, Executive Director of the American Mathematical Society.

6. René Thom was invited officially on November 25, 1955 to membership for the fall term of 1956-57 with a grant-in-aid of $3,000.

7. On November 29, 1955 Professor Whitney wrote an informal letter to Andrew Gleason inviting him to the Institute as a member for either the academic year of 1956-57 or 1957-58. Dr. Gleason replied under date of January 6, 1956 and declined the invitation for 1956-57.

8. Alex Heller was invited officially on December 7, 1955 to membership for the spring term of 1955-56 during his Alfred P. Sloan Foundation fellowship.

9. K.-T. Chen was invited officially on December 7, 1955 to be Professor Montgomery's assistant for the academic year 1956-57 with a salary of $4,200. On January 2, 1956 Dr. Chen declined the invitation due to a previous appointment at Rutgers University.

10. Alfred V. Froelicher was invited officially on December 9, 1955 to remain as Professor Veblen's assistant for the academic year 1956-57.

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Minutes of a meeting of the mathematicians of the School of Mathematics held December 14, 1955:

Present: Professors Beurling, Gödel, Montgomery, Morse, Selberg and Whitney with Professor Oppenheimer.

1. This meeting was an informal meeting of the mathematicians without Physicists Dyson and Yang in order to consider what the mathematicians wish to recommend to the full School of Mathematics with respect to the proposal of Professor Walter Leighton.

The proposal of Walter Leighton, representing the Office of Scientific Research, that the School of Mathematics sponsor a summer conference in a field of mathematics was discussed. This proposal comes from the offices of the Office of Scientific Research but not yet from the ultimate authorities. Under this proposal the School of Mathematics would name the field, the time and the place of the conference and select the speakers and other invited persons. Leighton mentioned $100,000 as an upper bound for the amount possibly available.

It appears that around the first week of September of 1957 may be the best time for holding the conference. The proposed length of the conference might be two or three weeks. One subject suggested was the theory of functions of complex variables including thereby the theory of analytic functions on Banach spaces, topological problems related to the general theory, conformal mapping, and other topics. One proposal was to have a small number of very distinguished speakers give a limited number of hour addresses in the mornings with the afternoons devoted to seminars run simultaneously on three or four sub-fields of the general field. The number of persons suggested varies from 40 to 75. Whether or not the conference should be held in Princeton or in some other place as well as other questions must be decided by the School before a proposal is made to the O.S.R. A meeting of the School for this purpose must be held shortly.

2. It was agreed that it would be desirable to make arrangements with Jean-Pierre Serre for him to spend a term of each year at the Institute under an agreement similar to the one with Professor Jean Leray. As a salary, figures of $6,500 and $7,000 were mentioned. It is understood that it may be possible for Serre and Leray to come during different terms.

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3. The recommendation of the above mathematicians that Armand Borel be made a professor of mathematics was discussed. It was agreed that the reasons for making this appointment and the nature of Borel's work would be written up for presentation to the School of Mathematics and upon approval by the School of Mathematics to the full faculty. A similar outline is to be prepared for Serre.

4. It was agreed that Shizuo Kakutani's name should be included among those on the proposed contract with the Office of Ordnance Research together with the young mathematician Lee A. Rubel. The salaries to be proposed under this contract will be as follows:

H. Ellis	$3,500
S. Kakutani	5,000
G. Kreisel	5,000
L. A. Rubel	5,000
T. Tamagawa	5,000

5. Dr. Oppenheimer gave a brief review of the status of the Electronic Computer Project at the present time, outlining the three possible futures of this project.

Marston Morse
Secretary

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Official action taken subsequent to School meeting of December 14, 1955:

1. George Whaples was invited officially on December 19, 1955 to membership without grant for the spring term of 1955-56.

2. Fouad Mohamed Ragab was invited officially on December 15, 1955 to membership for the academic year 1956-57 during his grant from the Egyptian government.

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Minutes of a meeting of the School of Mathematics held December 22, 1955:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. It was agreed that the conference should be held in Princeton. The time was set tentatively from September 1 to 14. This time may be changed if this can be done without interfering with the summer meeting of the American Mathematical Society. The number of persons to be invited is, at most, 60; 30 from abroad and 30 from America.

The following preliminary budget, prepared by Mr. Morgan and Professor Morse, was approved as a basis for negotiation with Dr. Andrew of the Air Force Office of Scientific Research. The item "Reports" was designed to cover the cost of multilithing reports of the seminars, a subsidy for the book to be printed in the Princeton Series containing the papers of the ten principal speakers, and the cost of distributing the above. Whether or not this amount is adequate will depend upon the number to be distributed.

Marston Morse
Secretary

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Preliminary Budget

TIME: Approximately September 1 to 14 (14 days)

PLACE: Institute for Advanced Study and the Princeton Inn

ATTENDANCE: Approximately 60 delegates

ARRANGEMENTS: 1. Lodging - Princeton Inn; 2. Meals - (a) Breakfast - Princeton Inn, (b) Lunch (12 days) - Institute for Advanced Study, (c) Dinner - as you will; 3. Lectures and Seminars - Institute for Advanced Study; 4. Transportation - Station Wagon Service.

EXPENSES: 1. Travel allowance - Air Tourist plus $150 for delegates from abroad (a. Western Europe - $700; b. Southern Europe - $800; c. Japan - $1,200; d. India - $1,300). Air First Class plus $50 for delegates from the United States, (Average - $150). 2. Per diem - $12.00.

SALARIES: 10 preparing extensive manuscripts at $500; others $250.

ENTERTAINMENT: Two garden parties; three or four trips for wives.

STAFF: 1 secretary - 12 months; 1 conference executive secretary - 2 months; extra help transportation and cafeteria.

OVERHEAD: 25 percent of total expense, except for foreign travel.

A. Delegate Expense		
1. 30 Foreign		
a. Travel	$27,000	
b. Salaries	7,500	
c. Per diem ($12)	5,040	
		$39,540
2. 30 United States		
a. Travel	$ 4,500	
b. Salaries	7,500	
c. Per diem ($12)	5,040	
		$17,040
B. Institute Expense		
1. Lunches	$ 900	
2. Transportation	600	
3. Entertainment	1,000	
		$ 2,500
C. Staff		6,000
D. Reports		7,000
E. Contingent		2,000
F. Overhead		$11,770
		$85,850

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Official action taken subsequent to School meeting of December 22, 1955:

1. Michael Atiyah was invited officially on January 10, 1956 to membership for the academic year 1956-57 conditional on his receiving an extension to his Commonwealth Fund fellowship.

2. Lotfi A. Zadeh was invited officially on January 10, 1956 to membership for the fall term of 1956-57 during his sabbatical leave.

3. On January 10, 1956 Georg Kreisel was placed on the Office of Ordnance Research contract for the period December 1, 1955 to August 31, 1956 at a salary of $4,500. His Institute grant-in-aid for this year totals $660 which was the amount paid to him by December 1, 1955.

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Minutes of a meeting of the School of Mathematics held January 13, 1956:

Present: Professors Beurling, Dyson, Gödel, Montgomery, Morse, Oppenheimer, Pais, Selberg, Whitney, and Yang.

1. It was voted unanimously to recommend to the full faculty and to the Trustees that Armand Borel be invited to be a professor of mathematics in the Institute for Advanced Study.

2. It was voted unanimously to recommend to the full faculty and to the Trustees that Jean-Pierre Serre be given an appointment in the Institute for a five-year period similar to that of Jean Leray. If this is approved, detailed arrangements will be made with Serre by the Director. The salary suggested for a term was $7,000 and it is hoped that Serre will consent to come the second term. However it is understood that the Director will feel free to make other arrangements with Serre if Serre wishes to come for periods less frequent than every year, or for only part of a term.

3. It was voted to offer Professor Hans Lewy of the University of California, Berkeley, a grant of $3,000 for the fall term of next year, or if he prefers a grant of $5,000 for the year of 1956-57 understanding that this is to supplement his 2/3 salary while on sabbatical leave. [The Director will write.]

4. The School approved asking the Office of Ordnance Research for $1,500 for John M. Danskin, Jr. to work here for three months this summer on the calculus of variations and topology. [Professor Morse will write to Ordnance.]

5. It was agreed that Professor Morse, acting for the School of Mathematics, may notify any applicant for a National Science Foundation Fellowship who seeks membership in the Institute for the academic year 1956-57 that such membership will be granted subject to the condition that the applicant obtain the Fellowship.

6. The following mathematicians were voted membership without grants for the academic year 1956-57. [The Director will notify.]

Samuel Kaplan, Wayne University, Detroit, Michigan
John Nash, Massachusetts Institute of Technology [Sloan Foundation grant]
J. Edward Nelson, 349 Pierce St., Gary, Indiana [NSF Postdoctoral]
Daniel Zelinsky, Northwestern University [Guggenheim Fellowship]

7. The recommendation of Professor Montgomery that H. B. Griffiths receive a grant from the Institute transferred from Montgomery's assistant funds was approved. He is married without children so the grant would be for $4,200. [The Director will notify.]

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8. It was voted to offer J. C. E. Dekker, Visiting Assistant Professor at the University of Chicago, a grant of $4,200 for the academic year 1956-57. He is married without children. It is understood that if there are not enough funds to give Dekker a grant by virtue of his merit in comparison with other applicants funds for the grant will be taken from the assistant fund assigned to Professor Gödel. [The Director will notify.]

9. It was agreed that Professor Whitney should write to Andrew Gleason saying that the Institute's invitation for him to come for the year 1957-58 remains open and we shall want to take this up with him at any time that it suits his convenience.

10. The problem of making the necessary new grants to the strong young mathematicians on our list and at the same time of making a number of guarantees to mathematicians who are expected to receive salaries under government contracts becomes difficult because we do not know exactly when the government contracts will be signed. From the Office of Scientific Research we have a letter which states:

> "With reference to your letter of 1 December 1955, the Air Force Office of Scientific Research has given technical approval to your proposal for the renewal of Contract No. AF18(600)-1109.
>
> "You should expect to hear from the Procurement Division of this Headquarters in the very near future.
>
> "In order to avoid any possible misunderstanding, it is desired to emphasize that this letter does not constitute a commitment as only Air Force Procurement Officers are authorized to commit Air Force funds."

The proposal to the O.S.R. totals $32,500 in salaries. It is expected that we will have this contract signed within two months. In order to take care of the unlikely eventuality that some of these contracts do not go through, Dr. Oppenheimer said that we could go on the assumption of an emergency budget of $85,000 instead of the present $60,000 for next year.

Marston Morse
Secretary

Subsequent to this meeting John Isbell of Aberdeen, Maryland was granted membership for the academic year 1956-57 during his National Science Foundation Fellowship.

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Minutes of a meeting of the School of Mathematics held January 25, 1956:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. It was agreed to make reservations from the Institute funds for the academic year 1956-57 to cover the mathematicians coming under the Office of Ordnance Research contract, writing them informally that the Institute would make them grants equal to the salaries which they would receive under the Ordnance contract taking into account the fact that the salaries would be taxed and the Institute grants tax-free. The people so involved are:

a. Dr. Hubert W. Ellis [$3,200]
b. Dr. Melvin Henriksen [$5,000]
c. Dr. Georg Kreisel [$4,200]
d. Dr. L. A. Rubel [$4,400]
e. Dr. T. Tamagawa [$4,400]

[Professor Morse will write informal letters to these mathematicians. The amounts in brackets will not be mentioned but will be kept in mind when budgeting grants for 1956-57.]

2. The following grants for the academic year 1956-57 were voted to mathematicians who are at the Institute at the present time:

a. Dr. Pierre E. Conner, Jr. $3,700
b. Dr. Arnold Shapiro 4,700
c. Dr. Tadao Tannaka 4,700

[The Director will write.]

3. It was agreed that J. C. E. Dekker's qualifications are sufficiently high so that there will be no call on the assistant funds of Professor Gödel to cover his grant during the academic year 1956-57.

4. It was voted to put Ernest A. Michael and Alex Rosenberg under the National Science Foundation contract for the academic year 1956-57 with salaries as follows:

a. E. A. Michael $4,400
b. Alex Rosenberg 5,000

[The Director will notify.]

5. Grants for the academic year 1956-57 were voted to the following men:

a. Dr. Wilhelm Klingenberg, Mathematisches Seminar, Harvestehuderweg 10, Hamburg, Germany, $4,200

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b. Mr. Shoshichi Kobayashi, Dept. of Math., University of Washington, Seattle, Washington, $3,700

c. Dr. Heinrich-Wolfgang Leopoldt, Gebbertstr. 103, Erlangen, Germany, $4,700

d. Dr. Sadayuki Yamamuro, Dept. of Math., Hokkaidô University, Sapporo, Japan, $4,500

[Morse will write informally; the Director formally.]

6. The following mathematicians are applying for postdoctoral fellowships under the National Science Foundation:

a. Louis Auslander
b. Sherman E. Dyer
c. Hazelton Mirkil
d. Donald S. Ornstein
e. Richard S. Palais

It was agreed that in case these mathematicians do not receive the NSF grants for the academic year 1956-57 we would consider their cases specially.

7. As a preferred list for consideration if and when further money becomes available the following mathematicians are noted:

a. Paul T. Bateman, No. 1
b. Morton Brown
c. Paul P. W. Lorenzen
d. Yrjö Juve, recommended by Nevanlinna
e. Albrecht Dold
f. Dieter Puppe
g. H. Schubert
} recommended by Seifert
h. Daniel Lacombe
i. Joseph R. Shoenfield

Apart from Bateman, this list is not ordered.

8. Membership was voted for Karl W. Gruenberg and Michael P. Drazin conditional on their receiving fellowships for the academic year 1956-57 from the Commonwealth Fund. [Professor Morse will write informally.]

9. It was agreed that the Institute would apply to the Sloan Foundation for a fellowship of $8,000 for Raoul Bott to remain here during the academic year 1956-57. [Professor Montgomery will write.]

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10. It was agreed that Professors Morse, Beurling and Selberg should draw up the preliminary list of speakers and persons invited to the seminars at the conference to be held in September 1957. This list will be submitted to the whole School for comment and approval and will be used principally to enable us to make a firm proposal to the Office of Scientific Research.

Marston Morse
Secretary

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Subsequent to the Faculty Meeting on January 25, 1956, the following action occurred:

1. Walter Roelcke was appointed assistant to Professor Selberg for the academic year 1956-57 with a salary of $3,700.

2. Karl Gruenberg was granted membership for the academic year 1956-57 during his Commonwealth Fund fellowship.

3. Professor Hans Lewy accepted an invitation for the month of November 1956 with a grant of $1,500 and membership during his stay.

4. On the request of the Office of Ordnance Research to subtract $7,500 from our contract proposal Professor Montgomery, with the approval of Professor Morse and Dr. Oppenheimer, reduced our salary request for Dr. Ellis by $1,000 to $2,500, and had Dr. Tamagawa's name removed from the proposal entirely. This makes a total contract proposal of $22,500.

5. Michael F. Atiyah was granted membership for the academic year 1956-57 during the extension of his Commonwealth Fund fellowship.

6. Frank Rhodes of Liverpool University was granted membership for the academic year 1956-57 for the duration of his King George VI Memorial fellowship.

7. The following mathematicians, upon receiving National Science Foundation fellowships for the academic year 1956-57, were granted membership for that year:

Louis Auslander
Paul T. Bateman
Eldon Dyer
Hazelton Mirkil
Donald Ornstein
Joseph R. Shoenfield
Guilford Spencer

8. Kunihiko Kodaira was granted membership for the second term of 1956-57 with a salary of $4,500 from the National Science Foundation contract.

9. Tsuneo Tamagawa was granted membership with a grant-in-aid of $4,200 for the academic year 1956-57.

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10. The Office of Scientific Research contract was completed and the following mathematicians were notified of their membership and salary for the academic year 1956-57:

Hans J. Bremermann	$5,000	
Jacqueline Lelong	3,000	(Term I)
Pierre Lelong	3,000	(Term I)
Shigeo Nakano	5,000	
Maurice Sion	4,000	
John Wermer	6,000	

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Minutes of a meeting of the School of Mathematics held April 11, 1956:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. Tentative arrangements regarding the Office of Ordnance Research contract in which Conner, Shapiro, and Ellis will receive the following salaries were approved:

Pierre Conner	$4,500
Hubert W. Ellis	3,000
Arnold Shapiro	5,500

These arrangements are conditional upon L. A. Rubel coming to the Institute under a National Science Foundation fellowship, the Office of Ordnance Research accepting Conner and Shapiro as participants, and agreeing to raise Ellis' salary by $500.

2. Authority was voted to negotiate a National Science Foundation contract starting in the fall of 1957 to run for two years, proposing Kodaira, Bing, and Puppe as participants with salaries as follows:

Kunihiko Kodaira	$4,500 (Term II)
R. H. Bing	Not yet determined.
Dieter Puppe	$4,800

It is understood that in the case of Puppe a reservation of a grant of $4,200 will be made to cover the possibility that he may not be acceptable to the National Science Foundation. This is necessary since we shall not get final information from the Science Foundation for about a year.

3. Assistants for the Mathematics Faculty for the academic year 1956-57 will be as follows:

Professor Beurling	Leon Ehrenpreis	$3,700
Professor Montgomery	H. B. Griffiths	4,200 (membership with grant)
Professor Morse	John M. Danskin	3,700 (" " ")
Professor Selberg	W. O. P. Roelcke	3,700
Professor Veblen	A. V. Froelicher	4,200
Professor Whitney	Albrecht Dold	3,700

[Dr. Oppenheimer will notify Danskin, Dold, and Ehrenpreis. The others have been notified. Dr. Danskin's membership was approved by mail ballot immediately following this meeting.]

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4. Professor Gödel is considering whether or not he would like the fund for his assistant to be devoted to Daniel Lacombe for a membership for next year and will give his decision in a few days. Lacombe was voted membership if Professor Gödel's decision is favorable.

5. It was voted to offer Paul Lorenzen a grant of $4,700 and membership for the academic year 1957-58. [Professor Selberg will write informally first.]

6. A grant of $100 was voted to Hans Bremermann to cover part of his travel expenses to the Mathematical Congress in Vienna this summer. [Professor Morse will ask Mr. Morgan to transmit the $100 to Bremermann from the overhead of the Office of Scientific Research contract.]

7. The consensus of opinion regarding Samuel Bourne was that it is not wise to offer him the facilities of the Institute this spring. Professor Morse will talk with Bourne to see if there are any relevant circumstances of which we are not aware.

8. Membership was voted for the academic year 1956-57 to Raoul Bott and Melvin Henriksen for the duration of their Sloan Foundation fellowships. [The Director will notify.]

9. It was voted to add $800 to the salary of G. D. Mostow for the year 1956-57 from our grants-in-aid fund. He is to receive a salary of $6,500 from the OSR contract and this will make his total salary $7,300 for the year. [The Director will notify.]

10. It was voted to send declinations of requests for grants for next year to the following mathematicians with the suggestion that a second application, made early next year, might have a more favorable chance of being accepted.

Morton Brown, University of Wisconsin
Shafik Doss, Cairo, Egypt
Michael P. Drazin, Trinity College, Cambridge
Kurt Legrady, Hamburg, Germany
Alfred I. Martin, Oxford University
Richard S. Palais, Harvard University
Daniel Pedoe, Khartoum, Sudan, Africa
Solomon Schwartzman, Johns Hopkins University

[Morse will write to all but Pedoe to whom Montgomery will write.]

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11. Straight declinations will be sent to the following:

Ali Reza Amir-Moéz
Rafael Artzy
Barnard H. Bissinger
Carl C. Faith
James M. G. Fell
Murray Gerstenhaber
Chuan-Chih Hsiung
Yrjö Juve
Richard V. Kadison
Frank Kozin
Richard K. Lashof
George F. Leger
Paulette L. Libermann
Paul S. Mostert
Robert H. Oehmke
Hala Pflugfelder
Robert Schatten
Allen L. Shields
Takayuki Tamura
James V. Whittaker

[Professor Morse will send these letters.]

Marston Morse
Secretary

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Minutes of a meeting of the School of Mathematics held October 8, 1956:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. The School of Mathematics voted to invite James A. Jenkins to spend the academic year 1957-58 here with a salary of $4,000 to be obtained, if possible, from a contract with the Office of Ordnance Research, but in any case to be underwritten by the Institute. [Professor Morse will write.]

2. It was voted to suggest to Professor Chowla that he apply at once for a Senior National Science Foundation Fellowship to enable him to come to the Institute next year. To take care of the possibility that his application might not be successful the consent of Chowla will be sought for an application from the Institute to the Office of Ordnance Research to the effect that Chowla receive an adequate salary (maximum $7,000) during the year. In any case the Institute wishes to underwrite his year here. [Professor Morse will write.]

3. It was voted to invite Wilhelm Stoll to spend the year 1957-58 here with a salary of $5,100 obtainable, if possible, from a contract with the Office of Ordnance Research, otherwise with a regular grant from us of $4,700. [Professor Morse will write.]

4. The application of Professor Ernest Corominas is not viewed favorably at the present time.

5. It was voted to seek an arrangement with Princeton University whereby Professor Aldo Andreotti would receive a salary of $2,500 from us for one term of 1957-58, and $2,500 from the University for the other term. [Professor Morse will take this up with Professor Tucker and Professor Spencer at the University.]

6. With regard to Dr. Grauert of Münster it was agreed that Professor Morse should write him an exploratory letter stating that the Institute will be glad to have him spend a year at the Institute in the near future and would seek to make adequate financial arrangements.

7. In the case of Professor T. G. Room, Dr. Oppenheimer suggested that the Ford Foundation might be interested in enabling him to visit this country. It is understood that membership would be granted him in case he obtains funds permitting him to visit this country.

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8. It was voted to offer Dr. C. D. Papakyriakopoulos a grant of $1,000 for this year assuring him that this would not prejudice in any way any application he might make to us in the future. [Professor Morse will notify; the Director will write formally.]

9. In case Leo Sario formally applies for membership for 1957-58 it was agreed that Professor Morse should write him that because of the number of mathematicians in his field admitted for the year 1957-58 it would be better if he applied some later year.

10. It was voted to ask Professor Rolf Nevanlinna to spend one or two months at the Institute at his pleasure, after the Conference on Analytic Functions in 1957, with a grant of $1,000 per month. [Professor Morse will write.]

11. It was voted that the French logician Daniel Lacombe should be invited to spend the year 1957-58 at the Institute with a grant of $4,200 and that Professor Morse should write an exploratory letter to see if he is interested. MM

12. The School of Mathematics has approved the proposal that Professor Curt Richter of the Johns Hopkins Medical School be invited here for the calendar year 1957. It is understood that the grant to him will be from the Director's Fund. [The Director will write.]

13. The School of Mathematics is interested in a possible invitation to Paul Malliavin to spend a year at the Institute. Professor Morse will write Professor Ralph P. Boas of Northwestern University to seek such information as Boas can give concerning a recent paper submitted by Malliavin for publication.

14. The financial straits of various mathematicians due to the high cost of rent were discussed. It is understood that arrangements have been made which seem to be adequate for the present in the case of Maurice Auslander and Karl Gruenberg. Further information is being sought in the case of Ernest Michael.

15. Dr. Oppenheimer was directed to notify Professor Willard Quine of his membership in the School of Mathematics as well as the School of Historical Studies for the academic year 1956-57. His grant has been made from the Director's Fund.

Marston Morse
Secretary

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The following action has been taken since the meeting of April 11, 1956, and prior to this meeting with necessary voting by mail:

1. Lee A. Rubel was granted membership for the academic year 1956-57 during his National Science Foundation Fellowship.

2. Edwin E. Moise was made a supplemental grant of $2,000 for the academic year 1956-57.

3. The contract proposal to the National Science Foundation for the academic year 1957-58 was submitted as follows: R. H. Bing with a salary of $9,000; Dieter Puppe with $4,800; and Kunihiko Kodaira for the second term with a salary of $4,500.

4. The Association for Symbolic Logic was granted a subvention of $100 for the academic year 1956-57.

5. Aryeh Dvoretzky was invited to come to the Institute as a visitor for the summer of 1956.

6. The Office of Ordnance Research Contract was received and on June 28, 1956, the following formal invitations were sent for the academic year 1956-57: Pierre Conner with salary of $4,500; Georg Kreisel with $5,000; Hubert W. Ellis with $3,000; Arnold Shapiro with $5,500.

7. Michael F. Atiyah was invited to come to the Institute as a member for the fall term, 1956-57, during his Commonwealth Fund Fellowship.

8. Mary-Elizabeth Hamstrom was invited to membership for the academic year 1956-57 during her National Science Foundation grant.

9. Alex Rosenberg was made a grant of $500 in addition to his National Science Foundation contract salary of $5,000 for the academic year 1956-57.

10. Paul Lorenzen was advanced $900 of his grant of $4,700 for the academic year 1957-58.

11. Aryeh Dvoretzky was invited to membership with a grant of $600 for the academic year 1957-58.

12. Paul Halmos was invited to membership for the academic year 1957-58.

13. Eugenio Calabi was invited to membership during the academic year 1957-58 with a salary of $6,000 from the Air Force Office of Scientific Research contract.

14. John W. Addison, Jr., was invited to membership for the academic year 1956-57 during his National Science Foundation Fellowship.

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Minutes of a meeting of the School of Mathematics held November 14, 1956:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. The School of Mathematics voted to grant Frank Rhodes $500 to aid him in meeting his expenses. It is understood that his present funds amount to about $2,500 from his King George VI Memorial Fellowship. [The Director will notify.]

2. With regard to Fouad Mohamed Ragab, Professor Morse will explain the situation to Mr. Morgan. It was agreed that Mr. Morgan should ascertain whether Ragab has transportation back to Egypt. If he has transportation back to Egypt, by virtue of which he will leave Princeton sometime before January 1, 1957, it was agreed that a grant of $300 to him might solve the difficulty. This grant is to be given not because of his mathematical merit, but because of the urgency of his need.

3. It was voted to offer Jacques Deny a grant of $6,000 for the academic year 1957-58, or $4,000 for the first term. Professors Beurling, Morse and Selberg are agreed that Deny be invited to the Conference on Analytic Functions in September 1957. [Professor Morse will write informally.]

4. It was voted to offer Michel Hervé a grant of $5,500 for the academic year 1957-58, or $3,000 for the first term. [Professor Morse will write informally.]

5. It was voted to offer Olli Lehto a grant of $4,500 for the academic year 1957-58. [Professor Beurling will write informally, with a copy to Miss Underwood.]

6. It was voted to offer Sibe Mardešić a grant of $5,000 for the academic year 1957-58. Prior to sending the invitation, Dr. Oppenheimer will discuss the case with the State Department. [At the proper time, Professor Morse will write informally.]

7. It was voted to offer Alfred I. Martin a grant of $3,700 for 1957-58 and it will be suggested that he apply for a Fulbright grant to cover his travel expenses. [Professor Morse will write informally.]

8. It was voted to offer Onorato Timothy O'Meara a grant of $5,000 for the academic year 1957-58. [Professor Morse will write informally.]

9. It was voted to offer L. Waelbroeck a grant of $4,200 for the academic year 1957-58. Professors Beurling, Morse and Selberg are agreed that Waelbroeck be invited to the Conference on Analytic Functions. [Professor Morse will write informally.]

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10. It was voted to offer Hans Grauert a grant of $4,200 for the academic year 1957-58. Professors Beurling, Morse and Selberg are agreed that Grauert be invited to the Conference on Analytic Functions. [Professor Morse will write informally.]

11. Consideration of the case of Shafik Doss was postponed to another meeting.

12. It was felt that the case of Francesco Gherardelli could wait until Professor Andreotti comes here next year and the whole Italian situation can be talked over.

13. It was suggested that further information about Heinrich Guggenheimer be obtained from mathematicians such as Serre, Spencer and Kodaira who may know something about his contributions. [Professor Morse will write to Serre, Spencer and Kodaira.]

14. Professors Beurling, Morse and Selberg have agreed to examine the works of Sin Hitotumatu and Makoto Ohtsuka within the next two weeks and report on which of these mathematicians they prefer.

Marston Morse
Secretary

Report on action taken since last meeting:

1. Professor K. Iwasawa of Massachusetts Institute of Technology was invited to membership during the academic year 1957-58 with a grant of $3,500 to supplement his other funds.

2. Dr. C. D. Papakyriakopoulos was appointed assistant to Professor Montgomery during the academic year 1957-58 with a salary of $3,700.

After consultation with Professors Morse and Montgomery, the above recommendation with regard to Dr. Ragab was departed from to the extent that Ragab was offered a grant of $300 under the condition that he ask us for no further financial support, as clearly stated in a letter to Ragab from Dr. Oppenheimer on 21 November 1956. This money comes from the Institute's Contingent Fund.

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THE INSTITUTE FOR ADVANCED STUDY
PRINCETON, NEW JERSEY

OFFICE OF THE DIRECTOR

21 November 1956

Dear Colleagues:

For the past years I have often found myself voting on proposed memberships in Mathematics. I hope that my vote has done no harm--in most cases it has been added to a unanimous majority--but I do not really think I am qualified to vote on these matters. If I am to vote with any part of the Faculty, it should be with the physicists, when there are enough of us to require that. I would be glad to continue to receive the vote sheets, since they are informative, and I like to know your views and plans. I hope that you will agree that I should leave the actual decision to people who are competent to make it.

Very sincerely,

Robert Oppenheimer

Copy to: Professors Beurling
Gödel
Montgomery
Morse
Selberg
Whitney

✓cc Miss Underwood

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Minutes of a meeting of the School of Mathematics held December 20, 1956:

Present: Professors Beurling, Gödel, Montgomery, Morse, Selberg and Whitney.

1. It was voted to postpone consideration of Claude Berge, Ernesto Corominas and Shafik Doss. In the case of Ronald Harrop it was also voted to postpone consideration to give Professor Gödel time to consider whether or not he wishes to make Harrop his assistant, or to use his assistant fund to give Harrop a grant. Professor Gödel asked whether or not assistant funds not used could be carried forward. It was our understanding that they cannot be carried forward.

2. It was voted to offer Paul Dedecker a grant-in-aid of $3,000 and membership for the first term of 1957-58. [Professor Morse will write informally.]

3. It was voted to make the reservation of $4,700 for Michel Kervaire, but Professor Montgomery will write Professor Borel asking Borel whether or not he would like to make Kervaire his assistant, or to convert his assistant fund into a grant with membership for Kervaire with the understanding that, if he does this at once, he will be free to change his mind if done before some date such as March 1, 1957. [Professor Montgomery will write to Borel.]

4. It was voted to seek a contract for Joseph J. Kohn with the Office of Naval Research, as suggested by Kohn and Professor Spencer.

5. Professor Morse was authorized to write Candido L. da Silva Dias that, in case he finds it strictly impossible to postpone his fellowship until next year, the Institute will grant him membership at once in spite of the rather difficult conditions regarding housing and office space. [Professor Morse will write informally.]

6. It was voted to accept Orlando E. Villamayor as a member during his Guggenheim Fellowship starting in January 1957. Professor Beurling's written comment on the letter circularized concerning Villamayor was as follows: "It seems to me that a threefold mistake has been made by Dieudonné, the Guggenheim Foundation and Kaplansky that cannot be remedied by the Institute. Nor do I believe that anyone here could change Villamayor's orientation to more promising fields during one term. I feel that it is up to Dieudonné to try to arrange something suitable for Villamayor."

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In addition Beurling stated at the meeting that because of the urgency of action in this case, he agreed with the acceptance of Villamayor as member as voted. [Professor Morse will write informally; the Director formally.]

7. A letter from Jacques Deny indicates that he will come to the Conference and spend the first term of 1957-58 at the Institute. The grant, as voted at the last meeting is $4,000 for the fall term. [The Director will notify.]

8. It was agreed that Sin Hitotumatu and Makoto Ohtsuka should be removed from the list considered for next year. Since they had not applied for themselves no letter is necessary.

9. It was voted that the applications of Michael Drazin and Heinrich Guggenheimer should be rejected. [Professor Morse will write.]

10. It was recommended that Ernest Michael receive $500 additional under the contract with the National Science Foundation for his membership during the current year. This amount will come from the contract's overhead and will bring his total salary for 1956-57 to $4,900. [If the Director agrees he will notify.]

11. It was voted that K. F. Roth and Lars Garding each be invited next year to give one lecture with an honorarium of $100 each. [Professor Morse will invite these mathematicians.]

12. It was voted that Georges de Rham be granted $3,500 for the first term of 1957-58 or $6,500 for the year to make it more in accordance with the grants we have made to other mathematicians of his rank. It is my understanding that de Rham will hear of this first from the official letter which will be written to him after he has decided how much time he will spend here. [Professor Whitney will explore further the question of whether he will prefer the first term or the whole year.]

Marston Morse
Secretary

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Report on action since last meeting:

1. A letter was received from Andrew Gleason stating that because Professor Birkhoff and Professor Tate of Harvard will be taking leave during 1957-58 Gleason cannot come to the Institute that year, but he would like to come some later year.

2. By mail vote G. A. Hunt was granted membership for the academic year 1957-58 with a salary of $4,500 from our proposed contract with the Office of Ordnance Research. Until this is final a reservation from our grants of $4,000 is being made to guarantee Dr. Hunt a salary.

3. It was voted by mail ballot to place Professor James A. Jenkins' name on our contract proposal to the Office of Ordnance Research with a salary of $4,500 for the academic year 1957-58. Meantime he was granted membership during 1957-58 and a reservation from our grants was made for him in the amount of $4,000 until the contract becomes final.

4. Professor S. Chowla was voted membership for the academic year 1957-58 with a salary of $4,500 from our proposed contract with the Office of Ordnance Research, plus a grant-in-aid provided by the transfer of Professor Selberg's assistant fund in the amount of $4,500. Until the contract has been approved a reservation from our grants is being made of $2,500 in order to guarantee Professor Chowla a salary of $7,000.

5. T. G. Room was voted membership for the academic year 1957-58 with a grant-in-aid of $4,500 which will support him up to February 1, 1958, after which it is our understanding that Princeton University will provide funds for his sojourn in Princeton. This grant is a transfer from Professor Veblen's assistant fund.

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Minutes of a meeting of the School of Mathematics held January 30, 1957.

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. The following grants in the form of renewals were made for the academic year 1957-58:

J. C. E. Dekker	$4,200	(Institute grant)
Hubert B. Griffiths	4,200	" "
Wilhelm Klingenberg	4,500	" "
Shoshichi Kobayashi	3,700	" "
Heinrich W. Leopoldt	4,700	" "
Donald Ornstein	4,400	(AFOSR contract)
Sadayuki Yamamuro	4,500	(Institute grant)

[The Director will send out notices of these grants except to Ornstein to whom Professor Morse will speak informally.]

2. To American applicants the following grants and memberships for the academic year 1957-58 were voted:

Theodore T. Frankel	$5,000	(AFOSR contract)
Carl S. Herz	4,800	" "

[Professor Morse will write informally.]

3. Membership for the academic year 1957-58 together with the reservation of grants were recommended in the following two cases:

John F. Adams	$4,200
David Hertzig	4,200

in case Adams does not obtain the Commonwealth Fund Fellowship, or Hertzig does not obtain the National Science Foundation Postdoctoral Fellowship. It is not possible now to make these reservations except under the expectation that they be put under the Air Force contract. It is proposed to notify them of their membership with a vague indication that money could probably be raised from other sources to support them in case Adams does not obtain the Commonwealth Fund Fellowship and Hertzig does not obtain the National Science Foundation Fellowship. It is to be noted, however, that neither one is a suitable assignment to the Air Force contract. [Professor Morse will write informally.]

[The above grants and reservations total $48,400.]

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4. Membership was granted to Melvin Henriksen (Sloan Foundation Fellowship), Murray Gerstenhaber (supported through consulting fees), and Chi-Yuan Lee (who says he will be supported by outside funds) for the academic year 1957-58. Membership was also granted for the academic year 1957-58 to Anil Nerode and John H. Walter since they have already obtained National Science Foundation Fellowships. [The Director will notify.]

5. It was voted to decline a grant to the following:

Kurt Bing
Shafik Doss
Ronald Harrop
Philip J. Higgins
Huan P. Kuang
Frank Rhodes
Norman Stein

In the case of Harrop and Higgins Professor Morse was authorized to encourage them to apply some other year for a grant. [Professor Morse will write to all the above.]

6. Of the remaining mathematicians the following are applying for National Science Foundation fellowships:

Eldon Dyer
H. Chandler Davis
David Hertzig (with reservation voted)
Robert C. James
Burton Jones (Senior Fellowship applicant)
Jack E. McLaughlin
J. Edward Nelson
Lee A. Rubel
Leo Sario (Senior Fellowship applicant)
Merrill E. Shanks (Senior Fellowship applicant)
Joseph R. Shoenfield
James V. Whittaker

By a mail vote taken prior to this meeting it was agreed to grant membership during the period of the fellowship to any applicant receiving a National Science Foundation fellowship.

7. Action on all the remaining mathematicians is to be regarded as postponed.

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8. At a meeting of the School of Mathematics on January 23, 1957, a letter to André Weil was approved by the School of Mathematics, and the reference to Hertzig, as one who would receive favorable consideration, was agreed to by all the mathematicians.

After this meeting the following letter from the Director to Dr. Weil was approved unanimously by the mathematicians:

> "Thank you for your good letter of January 25th. We would be delighted to extend our earlier invitation for either the first or the second term of 1958-59, and very much hope that you will be able to arrange to come then. Usually Serre and Leray are here in the autumn term rather than the spring, but beyond that it may now be a little too early to predict who the visitors will be.
>
> "It occurs to me that you might find it natural and convenient to stop by on your way to France. We should very much like that. There will always be people here--though in summer relatively few--who would be most interested to hear you; and if you can come, and would like to talk, we shall make an honorarium of $300 available to you."

[Professor Morse will answer the letter to him informally in the same sense.]

9. It was voted that, with the aid of the money made available by Borel's leave of absence during the second term of next year to offer a grant of $6,000 to L. Nirenberg of the Institute of Mathematical Sciences at New York University for the second term of 1957-58. [Professor Morse will write an exploratory letter.]

10. By majority vote the following mathematicians were given priority in the following order for receiving grants when money becomes available:

Wolfram Jehne
Dock Sang Rim
Michael O. Rabin
Göran Björck

In the case of Björck it is understood that Professor Beurling has written encouraging him to come provided he can obtain $3,000 from other sources. If Björck is successful in this, it is proposed that the Institute grant him an additional $1,200 if his case comes within the priority rating.

Marston Morse
Secretary

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11. After the meeting the following recommendations were approved by mail vote:

(a) "In order to take care of the difficulty in assigning suitable mathematicians to the Air Force contract it is proposed that Deny be asked to accept a salary of $4,500 under the Air Force contract instead of the grant of $4,000 from the Institute. His field is appropriate.

"The auspices of his work with Beurling will give the assignment the proper weight and will counterbalance the possible objection that he is not an American citizen."

(b) "Since Nevanlinna has written that he cannot spend any time at the Institute for Advanced Study after the Conference in September we have $2,000 more available.

"It would be possible to put Robert R. D. Kemp under the contract with the Air Force now going over the money available by $1,671.91 with the reservations giving us a large probable backlog.

"I propose that Kemp now be put under the Air Force contract at $4,800."

In the original vote Kemp was fourth on the priority list. The proposed Air Force Office of Scientific Research contract now involves the following:

E. Calabi	$6,000
J. Deny (Term I)	4,500
T. Frankel	5,000
C. Herz	4,800
R. Kemp	4,800
D. Ornstein	4,400

Report on action since last meeting:

1. Having been approved by mail ballot in October, the travel expenses of Georg Kreisel to give an invited lecture at the Rochester meeting of the American Mathematical Society at Christmas time were paid from the overhead of the Office of Ordnance Research contract in the amount of $57.61.

2. M. Kervaire was voted membership and a grant of $4,700 for the academic year 1957-58. This grant was transferred from Professor Borel's assistant fund.

3. Candido L. da Silva Dias has sent word that he will remain at Northwestern University this spring term rather than come to the Institute for Advanced Study.

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4. It was voted to submit a proposal for a contract to the National Science Foundation for Mary-Elizabeth Hamstrom for 2/9 of her salary, or $1,200, for the summer of 1957.

5. Professor Georges de Rham was invited for the academic year 1957-58 with a grant of $6,500.

6. M. Hervé was invited for the first term of 1957-58 with a grant of $3,000.

7. Albrecht Dold was appointed assistant to Professor Whitney for the academic year 1957-58 with a salary of $3,700.

8. It was voted that T. Tamagawa's membership and grant for Term II of 1956-57 would be postponed until Term I of 1957-58 so that he might accept a position at Johns Hopkins University for this spring term.

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Minutes of a meeting of the School of Mathematics held February 8, 1957:

Present: Professors Beurling, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. Those present were unanimous in the belief that the first steps should be taken to bring the case of André Weil before the complete School of Mathematics Faculty, the whole Faculty, and the Trustees. It was agreed to hold a meeting of the full School of Mathematics immediately following the visit of André Weil, that is during the week starting Monday, March 4. It is also understood that various items in the vita of André Weil should be presented to the Faculty as a whole without undue emphasis. A telephone conversation with Professor Gödel indicates that he is in favor of these steps.

2. It was decided not to send out declinations to any of the Japanese applicants for grants until decisions are made concerning all of them.

3. Murray H. Protter, of the University of California, was approved as one who might be proposed in the contract with the Air Force for the academic year 1958-59.

4. It was agreed that it would be desirable to raise the minimum grants in Mathematics by several hundred dollars, at least starting with the year 1958-59 and, if possible, starting with the year 1957-58. It was pointed out that our minimum grants are at least $500 below the grants from the National Science Foundation, taking into consideration the travel grant allowed by the Science Foundation. There is a similar disparity between our grants and the $5,000 fellowships of the Office of Naval Research after taking into account taxes on, and the allowed travel expenses of the Office of Naval Research fellowships.

Marston Morse
Secretary

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The following action has been taken since the Faculty Meeting of February 8, 1957:

1. It was voted to offer Professor J. Dieudonné an honorarium of $100 to visit the Institute on March 26 or 27 to give a lecture. This grant is to come from the Mathematics Visitors Fund.

2. Professor Leopoldo Nachbin, of the University of Brazil, was voted membership for the academic year 1957-58 provided he could obtain an extension on his Rockefeller Foundation Fellowship for that period. He later notified Professor Montgomery that he had not been able to obtain this extension. It was then voted that Professor Nachbin be invited to the Institute as a member for the academic year 1957-58 with a grant-in-aid of $500 to supplement his Guggenheim Fellowship. He has now requested to come only for the second term, owing to the size of his Institute grant, as he has been offered a teaching position at the University of Chicago for the fall term with a salary of $1,200. Professor Morse advised him to accept the Chicago position and apply later for membership for the second term, with a grant if this is necessary.

3. Professor Lars Gårding and Professor K. F. Roth were each voted an honorarium of $100 plus their traveling expenses to visit the Institute and give a talk each. [Professor Gårding's total grant from the Visitors Fund was $170 and Professor Roth's was $137.60.]

4. It was voted to place Professor Eugenio Calabi on the proposal to the Air Force Office of Scientific Research for a contract for the academic year 1958-59 with a salary of $6,500.

5. It was voted to place Dr. John W. Gray on the contract proposal to the Air Force Office of Scientific Research for the academic year 1957-58 with a salary of $4,800.

6. Michael A. Kervaire was voted an additional $500 from the grants-in-aid for 1957-58 making his total grant with $4,700 from Professor Borel's assistant's fund $5,200.

7. Orlando E. Villamayor was voted a grant of $500 for the current calendar year to aid in extraordinary hospital bills. He is at the Institute on a Guggenheim Fellowship.

8. Having received word from the State Department that nothing derogatory had been found on investigating Sibe Mardešić of Jugoslavia, the Director sent Dr. Mardešić his official invitation for the academic year 1957-58 with a grant of $5,000.

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9. It was voted to offer Frank Harary membership for the academic year 1957-58 if the National Science Foundation contract proposal, being submitted, is approved. Dr. Harary replied that he could accept membership without a grant from the Institute if the contract does not come in approved. He was then granted membership for the year 1957-58.

10. Professor Merrill Shanks was voted membership for the academic year 1957-58 during the period of his sabbatical leave. He will come without grant on half-pay sabbatical.

11. Professor F. Burton Jones was invited to membership for the academic year 1957-58 during his National Science Foundation Senior Fellowship.

12. Dr. W. F. Stinespring was invited to membership for the academic year 1957-58 during his National Science Foundation Fellowship.

13. The Office of Naval Research contract proposal for the academic year 1957-58 in behalf of Joseph J. Kohn was approved. Dr. Kohn was invited to membership with a salary of $5,500.

14. Dr. Henriksen has declined his membership for the academic year 1957-58 since he finds that he must return to his teaching position at Purdue.

15. It was voted to suggest that Professor Selberg join the Editorial Committee of the ANNALS OF MATHEMATICS.

16. Michael Rabin was voted membership for the spring term of 1957-58 with a grant of $2,000.

17. It was voted to invite Professor Fritz Levi of Berlin to visit the Institute sometime during October 1957 and give a lecture with an honorarium from the Visitors Fund of $500.

18. Since Professor M. H. Protter's salary is $11,000 at Berkeley it was voted to ask the Air Force to raise his salary in the proposed contract for Term II, 1958-59, to $5,500 or $6,000 meanwhile reserving $500 for him from our grants-in-aid in case the Air Force cannot raise his salary from the original request of $5,000.

19. Daniel Ray was voted membership for the spring term of 1957-58 during his Sloan Foundation Fellowship.

20. Membership was voted to Orville Harrold, Jr., for the spring term of 1957-58 during the period of his Guggenheim Foundation Fellowship.

21. It was voted to raise Professor Kunihiko Kodaira's salary from the National Science Foundation contract by $1,000, making his total salary $5,500.

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22. It was voted to send declinations to the following applicants for membership during 1957-58:

Azumaya, Goro	Mendelson, Bert	Shoenfield, J. R.
Berge, Claude	Rauch, H. E.	Sunouchi, Gen-ichiro
Corominas, Ernesto	Rim, Dock Sang	Suzuki, H.
Kinoshita, S.	San Juan, A. R.	Vesentini, Edoardo
Kusunoki, Y.	Sario, Leo	Walker, E. A.
Luthar, I. S.	Schwiderski, Ernst	Weinzweig, A. I.
McLaughlin, J. E.		Yoshioka, T.

23. It was voted to offer Dr. John Myhill membership for the academic year 1957-58 with a grant of $4,500. Of this grant, $2,500 will be taken from the regular fund and $2,000 will come from a transfer of Professor Gödel's assistant's fund.

24. Lester E. Dubins was granted membership for the duration of his National Science Foundation Fellowship in the academic year 1957-58.

25. Thomas Brahana was granted membership for the academic year 1957-58 with a fellowship from the University of Georgia.

26. It was voted to grant Dr. Pierre Conner $500 from the Air Force Office of Scientific Research contract for work he will do at the Institute during the summer 1957. [Dr. Conner found it necessary to work elsewhere during this period, and therefore did not accept the grant of $500 from the Institute.]

27. It was voted to transfer Professor Kenkichi Iwasawa to the Air Force Office of Scientific Research contract for the academic year 1957-58 and to pay him a salary of $4,000 from the contract instead of $3,500 from the regular grants-in-aid fund. Subsequently it was found that Professor Iwasawa would not accept money from the Institute either in the form of a grant or from the Air Force contract because he has received a Guggenheim Fellowship, a National Science Foundation Fellowship, and sabbatical pay from M.I.T. Action on this vote was therefore cancelled.

28. The Office of Ordnance Research contract on behalf of Professor James A. Jenkins has been received and he was notified that he will receive a salary from it in the amount of $4,500.

29. By a telephone vote, which included an affirmative vote from all those contacted (Professors Beurling, Borel, Gödel, Montgomery, Morse and Selberg) Dr. Göran Björck was granted membership for the academic year 1957-58 during his Swedish fellowship.

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30. Dr. Hidehiko Yamabe was invited to spend the month of August 1957 at the Institute as a visitor.

31. Dr. Pierre Cartier was invited to spend the academic year 1957-58 at the Institute with a grant-in-aid of $6,000.

32. Dr. Eckford Cohen was invited to spend a month at the Institute as a visitor during the summer of 1957.

33. Dr. Tsuneo Tamagawa has been invited to remain at Johns Hopkins University for the fall term of 1957-58, and has been granted membership by the Institute for the spring term instead of the fall term as originally planned. His grant of $2,100 for this one term remains unspent, until his arrival, from his grant of $4,200 for the full year of 1956-57, of which he used half.

34. Professor Herbert Federer was granted membership for the fall term 1957-58 during his Sloan Foundation Fellowship.

35. Dr. Olli Lehto was unable to come for the academic year 1957-58.

36. Dr. Indar Singh Luthar was appointed Professor Beurling's assistant for the academic year 1957-58.

37. Dr. John M. Danskin, Jr. was appointed Professor Morse's assistant for the academic year 1957-58.

38. It was agreed to allocate $1,000 of the School stipend funds to Dr. Louis Nirenberg to supplement the $5,000 that will be available because of Professor Borel's absence at M. I. T.

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Minutes of a meeting of the School of Mathematics held October 1, 1957:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. It was voted to invite Professor Rolf Nevanlinna to be a member of the Institute for Advanced Study for the first term of 1958-59. Professor Beurling is authorized to write Nevanlinna in order that an agreement might be reached with Nevanlinna as to a suitable grant for this purpose.

2. It was voted to explore the possibility of inviting Dr. F. Hirzebruch to spend next year as a member at the Institute with a joint appointment with the University. It is understood that he may be able to get half his salary of $8,000 from Bonn. It is proposed that the Institute and the University pay him $2,000 or at most $2,500 with membership at the Institute during the spring term, 1958-59. Authorization was granted to negotiate on this basis. [Professor Morse will confer with Professor Spencer and write Hirzebruch.]

3. It was voted to ask Professor A. Heyting of the University of Amsterdam to give two lectures here when he arrives in December or, if he prefers, in January, with an honorarium of $200. He will be provided with a room in the Project or a room in a hotel as well as board during his visit. [Professor Gödel will write.]

4. It was voted to grant membership to Father L. J. Heider, S.J. for the second term of this year, writing him that office space and housing will probably not be available until sometime in April, but that he can use the other facilities of the Institute starting with the second term. He will be supported by a National Science Foundation Fellowship. [Professor Morse will write.]

5. Relative to retention of the apartments in the Housing Project by Professor Andreotti and Professor Room, Dr. Oppenheimer stated that the principle which will govern this would be that members of the Institute would have priority over non-members. Andreotti was appointed a member for the first term 1957-58 and Room was appointed a member for the year. [Dr. Oppenheimer may confer with Mrs. Barnett on this.]

6. It was voted to extend Orlando E. Villamayor's membership for the first term to the second term of the academic year 1957-58. [The Director will write.]

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7. The question of asking the support of the Office of Ordnance Research for the year 1958-59 for three mathematicians was discussed. It was agreed that Professor Morse should write Dr. Gergen to determine the acceptability of Professor Lamberto Cesari and Professor K. F. Roth for this purpose. It is understood that if Professor Andrew Gleason can obtain a sabbatical leave he would be the third mathematician to be recommended to the Ordnance. The question as to whether Gleason can obtain a sabbatical leave will not be determined for several weeks. [Professor Selberg is asked to write to Roth to determine if he could come to the Institute next year with a salary around $6,000.]

8. It was voted to offer Dr. R. Sikorski a grant of $3,500 as a member of the Institute for Advanced Study for a term of 1958-59. [Professor Morse will write.]

9. It was voted to offer Professor H. Nakano a grant of $3,000 for the fall term of 1958-59. [Professor Morse will write.]

10. It was voted to recommend to the Full Faculty that Professor Kunihiko Kodaira receive an appointment as member for the second term of each of the next three years, 1958-59 through 1960-61, continuing with his present salary of $5,500. It is understood that Kodaira has an appointment as Research Professor at the University.[1] [Dr. Oppenheimer will write.]

There was considerable discussion of the question as to whether the University might not take over Kodaira as a professor on full time basis. It was pointed out that at the moment this would be very difficult for the University. Several of those present indicated that they would welcome Kodaira's permanent full appointment at the University. What the School of Mathematics should do when Kodaira's next appointment at the Institute expires cannot properly be settled until the wishes and judgment of Professor André Weil are brought to bear on this problem. It is understood that at the end of 1959, when Professor Weil is here, the whole question should be taken up again and future policy determined.

11. It was voted to decline to grant Dr. S. A. Amitsur a grant for the academic year 1958-59 although he will be welcomed as a member if he can raise the necessary funds. The reason underlying this recommendation

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[1] This recommendation was presented, as is necessary, to the Full Faculty which voted on the same day, October 1, 1957, to accept it.

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is that Amitsur has already been at the Institute for two years and the shortness of funds and facilities make it seem desirable to the Faculty of Mathematics to give a preference to mathematicians who have not already been at the Institute. [Professor Montgomery will write.]

12. Professor L.E.J. Brouwer was discussed and Professor Gödel wishes his name retained on the list of applicants for grants for 1958-59.

13. The question of the ways and means in which Russian mathematicians may be brought to the Institute was discussed by the Director. It was agreed that this problem would be explored further. The names of I. M. Gelfand, A. Gelfond and A. Kolmogoroff were agreed upon as men worthy of first appointments. It is understood that these mathematicians should be written to informally to determine whether they would look with favor upon spending some time at the Institute, and asking them to recommend young mathematicians who would profit by spending a year or term at the Institute. [Professor Morse will take this up with Dr. Oppenheimer.]

14. Professor Borel has agreed to find out from Professor Borsuk, or by other means, which young mathematicians in Poland might make the most interesting appointments in topology and, if possible, to obtain data on these mathematicians to present to the School in the near future.

15. It was recommended that Professors of Mathematics obtain data concerning any of the foreign mathematicians who appear to them to be of interest as possible appointments for next year in order that this data may be available this fall to all of the Professors in the School of Mathematics.

Marston Morse
Secretary

NOTE: Faculty Members who will be writing in any sense, carrying out requirements of these minutes, will please send a copy of such material to Miss Underwood for filing in the School files.

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The following action has been taken since the Faculty Meeting of October 1, 1957:

1. It was voted to grant Dr. Friederich Hirzebruch membership for the academic year 1958-59 with a grant of $4,500, thus cancelling the one-term membership voted at the last meeting.

2. It was voted to grant Professor Lars Gårding membership for the fall term 1958-59 with a grant of $5,000 from the Institute, or a salary of $6,000 if the money is obtained from the government.

3. It was voted to grant Professor E. E. Floyd membership for the academic year 1958-59 during his Senior National Science Foundation Fellowship.

4. Membership was voted to Dr. Edward Batho for the academic year 1958-59 during his National Science Foundation Postdoctoral Fellowship.

5. A vote was taken and approved to admit all National Science Foundation fellows who wish to come to the Institute next year with the provision of Professor Gödel that some member of the Faculty be willing to act as the mathematician's scientific advisor.

6. Professor Leopoldo Nachbin was granted membership without grant for the second term of 1957-58.

7. Professor K. Borsuk of Warsaw will be in the United States and available to give lectures between January 6 and 31, 1958. We have invited him to visit for about ten days during this time with an honorarium of $600.

8. It was voted to authorize negotiations with the Office of Ordnance Research for contracts in behalf of Professor Lars Gårding for the fall term of 1958-59 with a salary of $6,000, and in behalf of Professor James A. Jenkins for the academic year 1958-59 with a salary of $9,000.

9. An invitation to membership for the academic year 1958-59 was extended to Dr. Stephen Smale of the University of Chicago for the duration of his National Science Foundation fellowship.

10. It was approved to propose, in addition to Lars Gårding (as voted in note 8 above), to the Office of Ordnance Research that we pay half of Professor Jenkins' salary ($4,500) and OOR pay the other half for 1958-59, and to propose that we pay half of Professor P. D. Lax's salary (about $5,000) with OOR paying the other half for 1958-59. Meanwhile, the Institute will guarantee the whole salary of each until the contract is approved.

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Minutes of a meeting of the School of Mathematics held November 20, 1957:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. It was voted to raise the minimum grants-in-aid by $300. The minimum grants will now be the following:

Single man	$4,000
Married	4,500
One child	4,800
Two or more children	5,000

2. It was voted to accept Y. C. Wong as a member for the first term of 1958-59 provided Professor Chern, with whom Wong expects to work the second term, recommends him. [It was left to Professor Morse to negotiate.]

3. It was voted to apply to the Office of Naval Research for a renewal of the contract for Joseph J. Kohn for the academic year 1958-59. [Professor Morse will write.]

4. Dr. Frank Harary was voted membership with the understanding that he is able to negotiate a National Science Foundation contract for the academic year 1958-59 with the backing of the Director's Office, or obtain funds from other sources so that he can spend almost all of his time in research here. [The Director will write.]

5. Grants and memberships for the academic year 1958-59 were voted to the following mathematicians:

Pierre Cartier	$6,000	[The Director will write.]
Hans Grauert	5,000	[" " " "]
Sibe Mardešić	5,000	[" " " "]
Wilhelm Stoll	5,000	[" " " "]
Wolfram Jehne	5,000	[Professor Selberg will write informally.]
Edoardo Vesentini	4,500	[Professor Morse will write informally.]

6. Membership and grants for the academic year 1958-59 were voted to Ichiro Satake and Goro Shimura. Their grants will be according to their marital status. [Professor Morse will find out their marital status from Professor Weil and thereafter write them informally.]

7. It was voted to offer Edmund Hlawka a grant of $3,000 for whichever term he prefers of 1958-59 indicating that the preference of the School is that he come in the second term. [Professor Morse will write Hlawka and Szegö informally.]

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8. It was voted to raise the National Science Foundation salary of Dieter Puppe for the academic year 1958-59 from $4,800 to $5,100 taking into account his marital and tax status, and to grant him membership for the year. [Professor Morse will write informally; the Director will write formally.]

9. Professor Gödel wishes to invite Professor Paul Bernays to visit the Institute for several weeks following his presence at the conference in California and to use his assistants fund for this purpose. Professor Gödel indicated that $1,000 would be appropriate. [Professor Gödel will write.]

10. Professor Morse's proposal to sound out the Office of Naval Research for the purpose of obtaining a grant for Jürgen Moser was approved. [Professor Morse will write.]

11. It was voted to report to Professor Tucker that it is unlikely that Blakers will be offered a grant from the Institute for Advanced Study. [Professor Morse will write.]

12. The applications of Leif Kristensen, Yukio Kusunoki, and Koichi Yamamoto were not approved by the School. It was voted to write to Kristensen that he would be welcome if he could obtain funds from other sources. [Professor Morse will write Kusunoki and Yamamoto; Professor Montgomery will write Kristensen.]

13. The School of Mathematics is interested in having J. Frank Adams back for another year and it seems appropriate to indicate that interest to Dr. Adams. [Professor Morse will speak with Adams informally.]

14. The name of Kervaire will be restored to the list to be considered in the future for grants, and the names of Martin and Room stricken from the list.

Miss Underwood will append to each set of minutes a list of all mathematicians as of that date who have been invited to spend the academic year 1958-59 at the Institute, and indicate the source of their support. This list will be comprehensive.

Marston Morse

Secretary

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Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58		$11,259.34
Appropriation for 1958-59		70,000.00
		$81,259.34

P. Cartier	$6,000.00	
*[L. Gårding (I)	5,000.00]	
H. Grauert	5,000.00	
F. Hirzebruch	4,500.00	
E. Hlawka, one term	3,000.00	
W. Jehne	5,000.00	
J. A. Jenkins	4,500.00	
*[J. A. Jenkins	4,500.00]	
P. D. Lax	5,000.00 ±	
*[P. D. Lax	5,000.00 ±]	
S. Mardešić	5,000.00	
H. Nakano (I)	3,000.00	
R. Nevanlinna (I)	5,000.00	
[M. H. Protter (II)	500.00]	
I. Satake	4,500.00±	
G. Shimura	4,500.00±	
R. Sikorski (I)	3,500.00	
W. Stoll	5,000.00	
E. Vesentini	4,500.00	$83,000.00
		$-1,740.66

[ ] Money reserved
*[ ] Reserved money most likely to be returned, totalling $14,500.

Appointments with salaries from contracts:

Air Force Office of Scientific Research proposal:			$40,500.00
E. Calabi	$7,000.00		
M. H. Protter, 6 months	6,000.00	$13,000.00	
Overhead (25 percent)		3,250.00	16,250.00
			$24,250.00
Office of Naval Research contract renewal proposal:			
J. J. Kohn	$5,500.00		
Overhead (25 percent)	1,375.00		$ 6,875.00

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Office of Ordnance Research contract proposals contemplated for 1958-59 $18,000.00

L. Gårding (1)	$6,000.00	
J. A. Jenkins	4,500.00	
P. D. Lax	5,000.00 ±	
	$15,500.00	
Overhead (less than 25 percent)	2,500.00	$18,000.00

National Science Foundation contract 1958-59:

Remaining from 1957-58		$19,805.00
K. Kodaira (II)	$5,500.00	
D. Puppe	5,100.00	
Overhead (15 percent)	1,590.00	12,190.00
		$ 7,615.00

National Science Foundation contract through Director's Office:

F. Harary

Appointments with other sources of funds:

E. Batho, National Science Foundation fellowship
E. E. Floyd, " " " "
S. Smale, " " " "
Y. C. Wong (not yet final), University of Hong Kong/Carnegie Corp. of N. Y.

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Minutes of a meeting of the School of Mathematics held December 2, 1957:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer Selberg and Whitney.

1. It was agreed to reject the proposal of Rufus Isaacs which was made in a letter to Dr. Oppenheimer on November 26, 1957. [Professor Morse will write.]

2. The School voted to delete the names of Francesco Gherardelli and Y. Taniyama from the list of mathematicians to be further considered. No applications were ever received and no letter is needed.

3. Professor Morse was authorized to seek support for Theodore T. Frankel and John W. Gray under a contract with the Office of Ordnance Research whereby the Institute would pay half of the total salary, $5,100, of Frankel and half of the total salary, $4,800, of Gray. [Professor Morse will negotiate.]

4. It was further agreed that Robert R. D. Kemp would be a suitable candidate under a similar arrangement if the Office of Ordnance Research rejects either of the two above men.

If such proposals fail, Professor Morse will return to the School for further authorization.

Marston Morse

Secretary

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Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58		$11,259.34
Appropriation for 1958-59		75,000.00
		$86,259.34

P. Cartier	$6,000.00	
[T. T. Frankel, conditional on OOR	2,550.00]	
*[L. Gårding (I)	5,000.00]	
H. Grauert	5,000.00	
[J. W. Gray, conditional on OOR	2,400.00]	
F. Hirzebruch	4,500.00	
E. Hlawka, one term	3,000.00	
W. Jehne	5,000.00	
J. A. Jenkins	4,500.00	
*[J. A. Jenkins	4,500.00]	
S. Mardešić	5,000.00	
H. Nakano (I)	3,000.00	
R. Nevanlinna (I)	5,000.00	
[M. H. Protter (II)	500.00]	
I. Satake	4,500.00 ±	
G. Shimura	4,500.00 ±	
R. Sikorski (I)	3,500.00	
W. Stoll	5,000.00	
E. Vesentini	4,500.00	77,950.00
		$ 8,309.34

[ ] Money reserved
*[ ] Reserved money most likely to be returned, totalling $9,500.

Appointments with salaries from contracts:

Air Force Office of Scientific Research proposal:			$40,500.00
E. Calabi	$7,000.00		
M. H. Protter, 6 months	6,000.00	$13,000.00	
Overhead (25 percent)		3,250.00	16,250.00
			$24,250.00 (includes overhead)

Office of Naval Research contract renewal proposal:		
J. J. Kohn	$5,500.00	
Overhead (25 percent)	1,375.00	$ 6,875.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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Office of Ordnance Research contract proposals contemplated: $18,000.00

T. T. Frankel	$2,550.00		
L. Gårding (I)	6,000.00		
J. W. Gray	2,400.00		
J. A. Jenkins	4,500.00	$15,450.00	
Overhead (less than 25 percent)		2,550.00	18,000.00
			00

National Science Foundation contract:

Remaining from 1957-58			$19,805.00
K. Kodaira (II)	$5,500.00		
D. Puppe	5,100.00	$10,600.00	
Overhead (15 percent)		1,590.00	12,190.00
			$ 7,615.00

National Science Foundation contract through Director's Office:

F. Harary

Appointments with other sources of funds:

E. Batho, National Science Foundation fellowship
E. E. Floyd, " " " "
S. Smale, " " " "
Y. C. Wong (not yet final), University of Hong Kong/Carnegie Corp. of N. Y.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

The following action has been taken since the Faculty Meeting of December 2, 1957:

1. Dieter Puppe notified the Institute that he cannot accept our invitation for next year on the National Science Foundation contract.

2. Glen E. Bredon was voted membership for the academic year 1958-59 with a grant converted from Professor Montgomery's assistant fund. If he is still single his grant will be $4,000; if married, $4,500.

3. E. H. Spanier was granted membership for the academic year 1958-59 during the period of his National Science Foundation Senior Postdoctoral fellowship.

4. I. Satake was invited to membership for the academic year 1958-59 with a grant-in-aid of $5,000.

5. G. Shimura was invited to membership for the academic year 1958-59 with a grant-in-aid of $4,500.

6. Professor Gödel reported that Professor Paul Bernays cannot accept an invitation for a visit this term.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held January 15, 1958:

Present: Professors Beurling, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Weil and Whitney.

1. It was voted to raise the salary of Professor Kodaira for the three years starting July 1958 to $7,000 a year. [The Director will write.] Dr. Oppenheimer may write to Princeton University expressing the hope that the University may be able to give Kodaira full-time status eventually.

2. Membership for the academic year 1958-59 was voted to Nathan Fine conditional on his receiving total support from one or more of the sources he named in his application. [The Director will write.]

3. Membership for the academic year 1958-59 was voted to Edward Nelson for the duration of his National Science Foundation fellowship subject to the confirmation of his membership by the full faculty. [The Director will write.]

4. It was agreed that Albert L. Whiteman will be given a visitor's status during the coming summer. [Professor Selberg will write informally; the Director formally.]

5. It was voted to continue the grant of $5,000 to Timothy O'Meara for the first term of the academic year 1958-59 at $2,500. [The Director will write.]

6. It was voted to deny membership to Philburn Ratoosh for next year. [Professor Morse will write.]

7. It was voted to extend an invitation to Andrew Gleason to spend the second term of 1959-60 at the Institute for Advanced Study offering a grant equal to half of his academic salary. [Professor Whitney will write informally.]

8. It was agreed that the list of American applicants for grants from the Institute for Advanced Study for next year should be examined to the end that three of these applicants may be recommended to the National Science Foundation for grants for next year. It was suggested that the contract be made for two years, if this appears feasible.

9. Professor Gödel proposed the Algerian, Roland Fraïssé, for a grant for the academic year 1958-59. When further funds become available for foreign mathematicians this proposal will receive attention.

10. It is recorded that during 1958-59 Ulrich Christian will be Professor Veblen's assistant with a salary of $4,500.

11. It is further recorded that after this meeting Professor Kenneth S. Miller was voted membership for the academic year 1958-59 during his sabbatical leave.

Marston Morse

Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

January 14, 1958
Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58		$11,259.34
Appropriation for 1958-59		75,000.00
		$86,259.34
P. Cartier	$6,000.00	
[T. T. Frankel, conditional on OOR	2,550.00]	
*[L. Gårding (I)	5,000.00	
H. Grauert	5,000.00	
[J. W. Gray, conditional on OOR	2,400.00]	
F. Hirzebruch	4,500.00	
E. Hlawka, one term	3,000.00	
W. Jehne	5,000.00	
J. A. Jenkins	4,500.00	
*[J. A. Jenkins	4,500.00]	
S. Mardešić	5,000.00	
H. Nakano (I)	3,000.00	
R. Nevanlinna (I)	5,000.00	
T. O'Meara (I)	2,500.00	
[M. H. Protter (II)	500.00]	
I. Satake	5,000.00	
G. Shimura	4,500.00	
R. Sikorski (I)	3,500.00	
W. Stoll	5,000.00	
E. Vesentini	4,500.00	80,950.00
		$ 5,309.34

[ ] Money reserved
*[ ] Reserved money most likely to be returned, totalling $9,5[illegible].

Appointments with salaries from contracts:

Air Force Office of Scientific Research proposal:			$40,500.00
E. Calabi	$7,000.00		
M. H. Protter, 6 months	6,000.00	$13,000.00	
Overhead (25 percent)		3,250.00	16,250.00
			$24,250.00 (includes overhead)

Office of Naval Research contract renewal proposal:

J. J. Kohn	$5,500.00	
Overhead (25 percent)	1,375.00	$ 6,875.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Office of Ordnance Research contract proposals:			$18,000.00
T. T. Frankel	$2,550.00		
L. Gårding (I)	6,000.00		
J. W. Gray	2,400.00		
J. A. Jenkins	4,500.00	$15,450.00	
Overhead (less than 25 percent)		2,550.00	18,000.00
			00

National Science Foundation contract:		
Remaining from 1957-58		$19,805.00
K. Kodaira (II)	$7,000.00	
Overhead (15 percent)	1,050.00	8,050.00
		$11,755.00 (includes overhead)

National Science Foundation contract through Director's Office:

F. Harary

Appointments with other sources of funds:

E. Batho, National Science Foundation fellowship
N. J. Fine, conditional on total support from some other source
E. E. Floyd, National Science Foundation fellowship
Edward Nelson, National Science Foundation fellowship
S. Smale, National Science Foundation fellowship
E. H. Spanier, National Science Foundation Senior fellowship
Y. C. Wong, University of Hong Kong/Carnegie Corporation of New York

Assistant funds:

G. E. Bredon (Montgomery transfer to grant)	($4,000 or)	$4,500
U. Christian (Veblen)		4,500
A. Haefliger (Whitney; not yet final)		

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held January 23, 1958:

Present: Professors Beurling, Gödel, Montgomery, Morse, Selberg, Weil and Whitney.

[Professor Borel was absent but he communicated his vote on the National Science Foundation proposal by telephone.]

1. The Air Force Office of Scientific Research has notified us that it is prepared to make contracts now for the years 1959-60 and 1960-61. Our contract proposal for 1958-59 has been approved and we will be notified of this shortly. Dr. Andrew has advised us to make a preliminary proposal covering our needs for 1959-60 and 1960-61 within a week or ten days in order that the Office may take account of this in drawing up its budget. The mathematicians agreed on a proposal, the sense of which will be that of the following paragraphs:

"The Institute for Advanced Study wishes a contract for study in mathematics for the year 1959-60 for $44,000 including overhead of 25 percent and a contract for the year 1960-61 of the same character. We have understood that it was desirable that this proposal be in within a week of the present time. For that reason and because the time is so far in advance, it is not possible now to name the mathematicians whom the Institute wishes to support during these two years.

"The Institute, however, will undertake to select about six men among the best available mathematicians in this country or elsewhere to come here under your program during these two years. We believe that your office has sufficient confidence in us to allow us to make the selection according to our usual method, and after due consideration of available people. We may add that our method of choice is one in which our entire mathematics faculty participates.

"A precise description of the field or fields to be covered will be made as soon as final decisions have been made about the candidates to be selected. Among the names which have been discussed lately of strong candidates to be invited to come here in the future are the following:

Peter D. Lax:	Partial differential equations;
A. Grothendieck:	Functional analysis and sheaf theory;
Andrew Gleason:	Analysis and group theory;
Max Deuring:	Elliptic functions;
Henry Helson:	Analysis;
S. Kakutani:	Analysis.

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"With regard to salaries to be paid to such mathematicians, our policy is that we invite mathematicians under an arrangement whereby there will be no loss to them during the year of study."

2. It was voted to ask Jürgen Moser to come to the Institute during the academic year of 1958-59 with a salary equal to his present salary, provided the Office of Naval Research contracts to pay half of his salary. It is understood that the Institute will pay the other half which will be $4,000. [Professor Morse will negotiate.]

3. It was voted to reject the application for membership of Chi-Yuan Lee for the academic year 1958-59. [Professor Morse will write.]

4. It was voted to make an application for an additional contract to the National Science Foundation for the years 1958-59 and 1959-60 in the amount of $20,000, including overhead, for each year. The contract is to be for Studies in Mathematics. The following three mathematicians are to be named as possible recipients of grants under this contract for the year 1958-59:
Dock Sang Rim, in the amount of $4,600;
Morton Brown, in the amount of $5,100;
Harry E. Rauch, in the amount of $5,100 if he is married; otherwise $4,600.
It was agreed that Professor Selberg will draw up the scientific part of the proposal.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

January 23, 1958

Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58		$11,259.34
Appropriation for 1958-59		75,000.00
		$86,259.34
P. Cartier	$6,000.00	
[T. T. Frankel, conditional on OOR	2,550.00]	
*[L. Gårding (I)	5,000.00	
H. Grauert	5,000.00	
[J. W. Gray, conditional on OOR	2,400.00]	
F. Hirzebruch	4,500.00	
E. Hlawka, one term	3,000.00	
W. Jehne	5,000.00	
J. A. Jenkins	4,500.00	
*[J. A. Jenkins	4,500.00]	
S. Mardešić	5,000.00	
H. Nakano (I)	3,000.00	
R. Nevanlinna (I)	5,000.00	
T. O'Meara (I)	2,500.00	
[M. H. Protter (II)	500.00]	
I. Satake	5,000.00	
G. Shimura	4,500.00	
R. Sikorski (I)	3,500.00	
W. Stoll	5,000.00	
E. Vesentini	4,500.00	80,950.00
		$ 5,309.34

[ ] Money reserved.

*[ ] Reserved money most likely to be returned, totalling $9,500.

Appointments with salaries from contracts:

Air Force Office of Scientific Research contract AF 49 (638)-253: $40,500.00

E. Calabi	$7,000.00		
M. H. Protter, 6 months	6,000.00	$13,000.00	
Overhead (25 percent)		3,250.00	16,250.00
			$24,250.00 (includes overhead)

Air Force Office of Scientific Research contract proposal:

	1959-60	1960-61
Salaries for six mathematicians	$35,200	$35,200
Overhead (25 percent)	8,800	8,800
	$44,000	$44,000

Office of Naval Research contract renewal proposal:

J. J. Kohn	$5,500.00	
Overhead (25 percent)	1,375.00	$ 6,875.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Office of Ordnance Research contract proposals:			$18,000.00
T. T. Frankel	$2,550.00		
L. Gårding (I)	6,000.00		
J. W. Gray	2,400.00		
J. A. Jenkins	4,500.00	$15,450.00	
Overhead (less than 25 percent)		2,550.00	18,000.00
			00
National Science Foundation contract G-3248, 1957-59:			
Remaining from 1957-58			$18,942.50 *
K. Kodaira (II)	$7,000.00		
Overhead (15 percent)	1,050.00		8,050.00
			$10,892.50 (includes overhead)
National Science Foundation proposal, 1958-59:			
M. Brown	$5,100.00		
H. E. Rauch	5,100.00		
D. S. Rim	4,600.00		
One other mathematician	5,500.00		
Overhead (15 percent)	3,045.00		
Travel to scientific meetings	655.00	$24,000.00	
National Science Foundation proposal, 1959-60:			
Salaries, overhead, travel		$24,000.00	
National Science Foundation proposal through Director's Office:			
F. Harary			

Appointments with other sources of funds:

E. Batho, National Science Foundation fellowship
N. J. Fine, conditional on total support from some other source
E. E. Floyd, National Science Foundation fellowship
K. S. Miller, on sabbatical pay
Edward Nelson, National Science Foundation fellowship
S. Smale, National Science Foundation fellowship
E. H. Spanier, National Science Foundation Senior fellowship
Y. C. Wong, University of Hong Kong/Carnegie Corporation of New York

Assistant funds:

G. E. Bredon (Montgomery transfer to grant)	($4,000 or)	$4,500
U. Christian (Veblen)		4,500
A. Haefliger (Whitney; not yet final)		

* Professor R. H. Bing's 1957-58 salary from the National Science Foundation contract was raised by $750 following this meeting thereby reducing the available money from 1957-58 by $750 plus 15 percent overhead.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Since the meeting on January 23, 1958:

1. Professor Edmund Hlawka has declined our invitation for a term of 1958-59 due to poor health. This makes $3,000 available in our grants funds.

2. Friederich Hirzebruch has had to postpone his visit at the Institute in 1958-59 and has asked if he might come under the same conditions in 1959-60. This makes an additional $4,500 available in our grants funds.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held February 7, 1958.

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Weil, and Whitney.

1. Dr. Oppenheimer suggested the removal of Marguerite Frank's name from our list of mathematicians to be considered for next year.

2. It was voted to withdraw our applications to the Office of Ordnance Research for grants for half-salaries for James A. Jenkins, Theodore Frankel, and John W. Gray.

3. It was voted to apply to the Office of Ordnance Research for a salary of $5,400 for Theodore Frankel and, in the meantime, to reserve $4,800 of our own funds for him for the academic year 1958-59. [Professor Morse will write.]

4. On motion of Professor Borel the mathematicians reconsidered the action on John W. Gray and voted to apply for a contract to the Office of Ordnance Research for Gray in the amount of $5,100 for the academic year 1958-59 without any reservation from our own funds. [Professor Morse will write.]

5. It was voted to put James A. Jenkins under the Air Force Office of Scientific Research contract for the academic year 1958-59 with a salary of $9,000. This was altered, however, when Mr. Mohat of the Office of Ordnance Research telephoned to Professor Morse three days after this meeting. Mr. Mohat stated that the Office of Ordnance Research would have difficulty getting the contract for Lars Gårding because he is not an American citizen. He said that he believed that it would be possible for them to support James A. Jenkins, John W. Gray, and Theodore Frankel full-time during 1958-59. This would give us $6,375 more than we originally asked Ordnance for. By telephone inquiry this action was approved by the Mathematics Faculty. Such an application will be made to the Office of Ordnance Research and Lars Gårding's salary will be taken out of the Air Force Office of Scientific Research contract. The Business Office will be notified of this change of source of Garding's salary.

7. It was voted to put Solomon Feferman on the National Science Foundation contract with a salary of $5,500 for the academic year 1958-59. [Professor Morse will write.]

8. Professor Weil stated that he wished to devote his assistant fund for 1958-59 to membership for Hisasi Morikawa and/or to K. Heegner. He will let the Director know of his decision. The possibilities suggested were a whole year for Morikawa or a half-year for each. Membership was voted for these mathematicians during 1958-59 conditioned on their being named by Professor Weil. It was also voted to make $1,000 available to be used for the traveling expenses of these men.

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9. Dr. Oppenheimer announced that the maximum amount which has been budgeted for assistants, or their member replacements, for 1958-59 is $4,500 each.

10. The situation with regard to Michel Kervaire is not determined. Professor Borel may wish to transfer his assistant fund to a grant for Kervaire. It was voted to supplement the amount available from the assistant fund so as to make a total of $5,200 available for Kervaire, if needed, as was done this year. Membership was voted for Kervaire conditioned on Professor Borel naming him. [Professor Borel will write, when necessary.]

11. It was voted to offer Friederich Hirzebruch membership for the year 1959-60 under the conditions offered to him for 1958-59. This involves a grant of $4,500. [Professor Morse will write informally.]

12. It was voted to ask Beno Eckmann to give a lecture at the Institute when he visits the United States in the fall of 1958, offering him an honorarium of $300 from the Visitors Fund. [Professor Morse will write.]

13. Membership was voted to John Myhill for the academic year 1958-59 under the condition that he obtain funds either from a transfer of Professor Gödel's assistant fund, or from other sources. [The Director will write when these conditions are known to be satisfied.]

14. It was voted to place Victor Shapiro on the Air Force Office of Scientific Research contract with a salary of $6,900 for 1958-59. [The Director will write.]

15. It was voted to encourage Jürgen Moser to come to the Institute /*/ during 1959-60 provided he cannot come the year of 1958-59. Subsequently, Moser indicated he cannot come in 1958-59 and would like to come 1959-60. [Professor Morse will write.]

16. It was voted to invite Reinhold Baer to visit the Institute during the last week of March 1958 and to give a lecture with an honorarium of $250 and his room for the week. [Professor Morse will write.]

17. The policy of the Institute with regard to the proposed Center for Advanced Study at Chicago was discussed. The following statement was made by Dr. Oppenheimer:

"In attending the conference in Chicago, Professor Whitney will inevitably be speaking with three distinct voices. He will speak himself; he will speak on behalf of the Mathematics Faculty at the Institute, as to their views as to the needs and health of mathematics; and he will also represent this Institute. In this latter capacity, we hope that he will take an affirmative view of the desirability of other institutions for the advanced study of mathematics. It would seem natural to emphasize two points:

/* under a suitably arranged contract or grant/

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that freedom from instruction and administrative work for visitors at such an institution has proved a very essential point; and that a core of mathematicians of the highest quality is desirable for the success of such an institution. I would hope that he could also mention that we are not, as is generally thought, a very rich organization--we are operating with a deficit--and that increased support from the Science Foundation for our work in mathematics would be most welcome, whether this takes the form of supporting members on a larger scale, or whether the Foundation will determine that it can support institutions through a capital gift, or through assistance in facilities."

Professor Whitney will attend the conference.

Marston Morse
Secretary

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February 7, 1958
Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58		$11,259.34
Appropriation for 1958-59		75,000.00
		$86,259.34
P. Cartier	$6,000.00	
[T. T. Frankel	4,800.00]	
H. Grauert	5,000.00	
W. Jehne	5,000.00	
[J. A. Jenkins	9,000.00]	
[M. Kervaire, + asst. fund	700.00]	
S. Mardešić	5,000.00	
H. Nakano (I)	3,000.00	
R. Nevanlinna (I)	5,000.00	
T. O'Meara (I)	2,500.00	
I. Satake	5,000.00	
G. Shimura	4,500.00	
R. Sikorski (I)	3,500.00	
W. Stoll	5,000.00	
E. Vesentini	4,500.00	
[Travel money, Morikawa, Heegner	1,000.00]	69,500.00
		$16,759.34

[ ] Money reserved.

Appointments with salaries from contracts:

Air Force Office of Scientific Research contract AF 49(638)-253: $40,500.00

E. Calabi	$7,000.00		
L. Gårding (I)	6,000.00		
M. H. Protter, 6 mos.	6,000.00		
V. Shapiro	6,900.00	$25,900.00	
Overhead (25 percent)		6,475.00	32,375.00
			$ 8,125.00 (includes overhead)

Air Force Office of Scientific Research contract proposal:	1959-60	1960-61
Salaries for six mathematicians	$35,200	$35,200
Overhead (25 percent)	8,800	8,800
	$44,000	$44,000

Office of Naval Research contract renewal proposal:

J. J. Kohn	$5,500.00	
Overhead (25 percent)	1,375.00	$ 6,875.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Office of Ordnance Research contract proposals:

T. T. Frankel	$5,400.00	
J. W. Gray	5,100.00	
J. A. Jenkins	9,000.00	
Overhead (25 percent)	4,875.00	$24,375.00

National Science Foundation contract G-3248, 1957-59:

Remaining from 1957-58			$18,942.50
S. Feferman	$5,500.00		
K. Kodaira (II)	7,000.00	$12,500.00	
Overhead (15 percent)		1,875.00	$14,375.00
			$ 4,567.50 (includes overhead)

National Science Foundation proposal, 1958-59:

M. Brown	$5,100.00	
H. E. Rauch	5,100.00	
D. S. Rim	4,600.00	
One more mathematician	5,500.00	
Overhead (15 percent)	3,045.00	
Travel to meetings	655.00	$24,000.00

National Science Foundation proposal, 1959-60:

Salaries, overhead, travel $24,000.00

National Science Foundation proposal through Director's Office:

F. Harary

Appointments with other sources of funds:

E. Batho, National Science Foundation fellowship
N. J. Fine, conditional on total support from some other source
E. E. Floyd, National Science Foundation fellowship
K. S. Miller, on sabbatical pay
J. Myhill, conditional on support from some source not yet definite
Edward Nelson, National Science Foundation fellowship
S. Smale, National Science Foundation fellowship
E. H. Spanier, National Science Foundation Senior fellowship
Y. C. Wong, University of Hong Kong/Carnegie Corporation of New York

Assistant funds:

G. E. Bredon (Montgomery transfer to grant)	($4,000 or)	$4,500
U. Christian (Veblen)		4,500
A. Haefliger (Whitney; not yet final)		
M. Kervaire (Borel transfer to grant; not yet final)	(+ $700)	4,500
H. Morikawa and/or K. Heegner (Weil transfer; not final)	(+ $1,000)	4,500

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Since the meeting on February 7, 1958:

1. Samuel Kaplan was invited to visit the Institute for Advanced Study during the summer, mid-June to September 1958.

2. On Professor Gödel's recommendation the charges for John Myhill's grant for 1957-58 were transferred wholly to Professor Gödel's assistant funds thereby releasing $2,500 of the grants funds.

3. Membership for the academic year 1958-59 was voted to Minoru Nakaoka with either a grant of $5,000 or a salary from the proposed National Science Foundation contract of $5,500. If the new National Science Foundation contract is successful he will be placed under it releasing the amount reserved for him in our grants fund.

4. Roland Fraïssé was voted membership for the academic year 1958-59 with a grant-in-aid of $4,500.

5. Branko Grünbaum was voted membership for the academic year 1958-59 with a salary of $5,400 from our Air Force Office of Scientific Research contract.

6. Michael Kervaire cannot accept an invitation to remain for 1958-59. This frees $700 reserved as a supplement to a grant proposed for him at the last meeting. The main grant was to have been transferred from Professor Borel's assistant fund.

7. J. Hano was voted membership for the academic year 1958-59 but it was found that he had already accepted an appointment elsewhere.

8. Professor Whitney has invited Robert R. Phelps to be his assistant for 1958-59. His salary will be $4,500.

9. As our original negotiations with Murray H. Protter stated that we would seek aid for him in his traveling expenses, his salary has been raised to $6,500 for the second term of 1958-59 from the Air Force Office of Scientific Research contract.

10. Morton Brown cannot accept an invitation to come to the Institute next year on a National Science Foundation contract. This frees $5,100 which has been requested for Dr. Brown on the new N.S.F. contract proposal.

11. Albert Pfluger was invited to give a lecture when he visited here March 25, 1958, with an honorarium of $50 plus his expenses at Princeton Inn.

12. It was voted to supplement Burton Jones' National Science Foundation Senior fellowship by $500 from the current Air Force contract.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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13. Frank A. Raymond and Walter Feit were granted membership during their National Science Foundation fellowships for the academic year 1958-59.

14. Mrs. Alice T. Schafer was granted membership during her Senior National Science Foundation fellowship for the academic year 1958-59.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held April 1, 1958.

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg and Whitney.

1. It was voted to offer B. C. Mazur a salary of $4,500 to be taken from the National Science Foundation contract already in existence, provided this seems appropriate to the Mathematics Department of Princeton University. Membership for the academic year 1958-59 was voted. [Professor Morse will write Professor Tucker.]

2. It was voted to offer Milton Lees membership for the academic year 1958-59 and a salary of $5,100 to be taken from the new National Science Foundation contract, with the understanding that if this contract should fail to be completed he would receive a grant of $4,500 from the Institute's funds. [Professor Morse will write informally.]

3. It was voted to authorize the Director and Professor Morse to invite Professors I. M. Gelfand and Ladijenskaia to visit the Institute. A first approach will be made to Dr. Bronk of the National Academy of Sciences. It was agreed that the grant should be for $2,000 a month, up to a term of three months, with the possible adjustment of the grant if the visit should be for a longer duration. It was understood that the invitation is to be for any time during the next two years, for a term or an academic year, or for one or more months. These grants are to be charged to Institute funds.

4. It was voted to offer Richard D. Schafer and Murray Gerstenhaber membership for the academic year 1958-59. [The Director will write.]

5. It was voted to grant membership for the academic year 1958-59 to Aldo Andreotti. The question of granting membership to mathematicians with appointments at Princeton University was discussed. The precedent of Andreotti is not understood as implying that any competent mathematician with an appointment at the University could normally expect membership at the Institute if he wished it. The principal reason why the granting of membership to Andreotti seemed appropriate was that some of the Professors of mathematics at the Institute wish to have frequent consultations with him on mathematical questions and that with the privileges of membership at the Institute such consultations would be facilitated. [Dr. Oppenheimer will write.]

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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6. It was agreed that further information concerning the thesis and mathematical merit of Mrs. Marian B. Pour-El would be desirable in order that the mathematicians could give more careful consideration to her application for membership. [Professor Gödel will report on Mrs. Pour-El.]

7. It was voted to write Hidegorô Nakano that it is not possible at the present time to carry over his next year's appointment to the following year, but that if he so wishes, his case can be considered de novo next fall. [Professor Morse will write.]

8. It was voted to add $200 to the salary of Eugenio Calabi for the academic year 1958-59 taking this amount from the Air Force contract to bring his salary up to his current salary at the University of Minnesota. [Dr. Oppenheimer will write.]

9. It was voted to offer Karl R. Stromberg a grant of $4,000 from our own funds and membership for the academic year 1958-59. [Professor Morse will write informally.]

10. Professor Borel asked that membership be granted to Shôrô Araki. Professor Borel wishes that a grant be made available to Araki from his assistant fund. The amount was set at $4,500, in the absence of final data as to his marital status. Membership and grant are for the academic year 1958-59. [Professor Morse will write informally and the Director formally.]

11. Professor Morse expressed his desire to be relieved of the duties of the mathematical executive of the School of Mathematics. After some discussion of the various possibilities it was agreed that Professor Whitney would take over these duties starting in the month of June, serving for a term of two years.

12. It was agreed that Professor Selberg should confer informally with Professor Carl Siegel this summer to find out whether or not Professor Siegel would be interested in visiting the Institute for a term or a year after he retires.

Marston Morse
Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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Revised 298.

December 1, 1958
Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58			$13,450.87
Appropriation for 1958-59			75,000.00
			$88,450.87
S. Araki (also asst.)	$ 300.00		
P. Cartier	6,000.00		
H. Grauert	6,000.00		
W. Jehne	5,000.00		
S. Mardešić	5,000.00		
S. Minakshisundaram (July)	1,000.00		
H. Morikawa (also asst.)	1,092.00		
R. Nevanlinna (I)	5,000.00		
I. Satake	5,000.00		
G. Shimura	4,500.00		
R. Sikorski (I)	3,500.00		
W. Stoll	6,000.00		
E. Vesentini	4,500.00	$52,892.00	
Reservations:			
*I. M. Gelfand	6,000.00		
*O. A. Ladyzenskaja	6,000.00		
*Carried forward as reservations on next year's budget.			52,892.00
			$35,558.87

Appointments with salaries from contracts:

Air Force Office of Scientific Research, AF 49(638)-253:			$40,500.00
E. Calabi	$7,200.00		
L. Gårding (I)	6,000.00		
B. Grünbaum	5,400.00		
M. H. Protter (II)	6,500.00		
V. Shapiro	6,900.00	$32,000.00	
Overhead (25 percent)		8,000.00	40,000.00
			$500.00 (includes overhead)

Air Force Office of Scientific Research contracts:	1959-60	1960-61
Salaries for six mathematicians	$35,200	$35,200
Overhead (25 percent)	8,800	8,800
	$44,000	$44,000

Office of Naval Research contract extension:

J. J. Kohn (cancelled when decided not to return to Institute)

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Office of Ordnance Research contract proposals:

T. T. Frankel	$5,400.00		
J. W. Gray	5,100.00		
J. A. Jenkins	9,000.00		
Overhead (25 percent)	4,875.00	$24,375.00	

National Science Foundation contract G-3248, 1957-59:

Remaining from 1957-58			$18,942.50
K. Kodaira (II)	$7,000.00		
D. Lacombe	5,100.00		
B. C. Mazur	4,500.00	$16,600.00	
Overhead (less than 15 percent)		2,342.50	18,942.50

National Science Foundation contract G-5863, 1958-60:

1958-1959		
G. E. Bredon	$5,100.00	
M. Lees	5,100.00	
M. Nakaoka	5,500.00	
----	4,600.00	
Overhead (15 percent)	3,045.00	
Travel to meetings	655.00	$24,000.00

National Science Foundation contract G-5863, 1958-60:

1959-1960	
Salaries, overhead, travel	$24,000.00

Assistant funds:

S. Araki (Borel transfer to grant)(+ grant)	$4,500.00
K. E. Aubert (Selberg)	4,000.00
U. Christian (Veblen)	4,500.00
W. Huebsch (Morse)	4,500.00
J. Myhill (Gödel transfer to grant)(+ NSFC at Berkeley)	4,500.00
H. Morikawa (Weil transfer to grant)(+ grant)	4,500.00
R. R. Phelps (Whitney)	4,500.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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Appointments with other sources of funds:

A. Andreotti, Princeton University research associateship
E. Asplund, Sweden-American Foundation grant
E. Batho, National Science Foundation fellowship
J. M. Calloway (II), Sabbatical pay from Carleton College
L. E. Dubins, National Science Foundation fellowship
W. Feit, National Science Foundation fellowship
N. J. Fine, Guggenheim Foundation fellowship
E. E. Floyd, National Science Foundation Senior fellowship
M. Gerstenhaber, National Science Foundation Senior fellowship
L. Gillman, Guggenheim Foundation fellowship
F. Harary, Office of Naval Research contract through Princeton University
M. W. Hirsch, National Science Foundation fellowship
M. Jerison, Sabbatical pay from Purdue University
R. K. Lashof (II), government contract through University of Chicago
K. S. Miller, Sabbatical pay from New York University
E. Nelson, National Science Foundation fellowship
R. S. Palais, National Science Foundation fellowship
D. Ray (II), Sloan Foundation fellowship
F. A. Raymond, National Science Foundation fellowship
Alice T. Schafer, National Science Foundation fellowship
Richard D. Schafer, National Science Foundation Senior fellowship
S. Smale, National Science Foundation fellowship
E. H. Spanier, Air Force contract through University of Chicago
W. F. Stinespring, National Science Foundation fellowship
G. Takeuti, (II) National Academy of Sciences award
Y. C. Wong (I), University of Hong Kong/Carnegie Corporation of New York

Total membership, 1958-59: Term I 52 Term II 53

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Revised Dec. 1, 1958

April 1, 1958
Appointments, 1958-1959

Appointments with Institute grants-in-aid:

Remaining from 1957-58 (adjusted by Martin, Myhill)			$13,450.87
Appropriation for 1958-59			75,000.00
			$88,450.87
P. Cartier	$6,000.00		
R. Fraïssé	4,500.00		
H. Grauert	5,000.00		
W. Jehne	5,000.00		
S. Mardešić	5,000.00		
R. Nevanlinna (I)	5,000.00		
T. O'Meara	2,500.00		
I. Satake	5,000.00		
G. Shimura	4,500.00		
R. Sikorski (I)	3,500.00		
W. Stoll	5,000.00		
K. R. Stromberg	4,000.00		
E. Vesentini	4,500.00	$59,500.00	
Reservations:			
T. T. Frankel	4,800.00		
J. A. Jenkins	9,000.00		
M. Lees	4,500.00		
M. Nakaoka	5,000.00		
I. M. Gelfand	6,000.00		
- Ladijenskaia	6,000.00		
Travel money, Morikawa, and/or Heegner	1,000.00	36,300.00	95,800.00
			$-7,349.13

Appointments with salaries from contracts:

Air Force Office of Scientific Research, AF 49(638)-253:			$40,500.00
E. Calabi	$7,200.00		
L. Gårding (I)	6,000.00		
B. Grünbaum	5,400.00		
M. H. Protter, 6 mos.	6,500.00		
V. Shapiro	6,900.00	$32,000.00	
Overhead (25 percent)		8,000.00	40,000.00
			$500.00 (includes overhead)

Air Force Office of Scientific Research contract proposal:	1959-60	1960-61
Salaries for six mathematicians	$35,200	$35,200
Overhead (25 percent)	8,800	8,800
	$44,000	$44,000

Office of Naval Research contract extension:		
J. J. Kohn	$5,500.00	
Overhead (25 percent)	1,375.00	$ 6,875.00

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Office of Ordnance Research contract proposals:

T. T. Frankel	$5,400.00		
J. W. Gray	5,100.00		
J. A. Jenkins	9,000.00		
Overhead (25 percent)	4,875.00	$24,375.00	

National Science Foundation contract G-3248, 1957-59:

Remaining from 1957-58			$18,942.50
S. Feferman	$5,500.00		
K. Kodaira (II)	7,000.00		
B. C. Mazur	4,500.00	$17,000.00	
Overhead (less than 15 percent)		1,942.50	18,942.50

National Science Foundation proposal, 1958-59:

M. Lees	$5,100.00	
M. Nakaoka	5,500.00	
----	5,100.00	
----	4,600.00	
Overhead (15 percent)	3,045.00	
Travel to meetings	655.00	$24,000.00

National Science Foundation proposal, 1959-60:

Salaries, overhead, travel	$24,000.00

National Science Foundation proposal through Director's Office:

F. Harary

Appointments with other sources of funds:

A. Andreotti, Princeton University research associateship
E. Batho, National Science Foundation fellowship
W. Feit, National Science Foundation fellowship
N. J. Fine, conditional on total support from some other source
E. E. Floyd, National Science Foundation fellowship
M. Gerstenhaber, own funds
M. W. Hirsch, National Science Foundation fellowship
K. S. Miller, on sabbatical pay
J. Myhill, conditional on support from some source not yet definite
R. S. Palais, National Science Foundation fellowship
Edward Nelson, National Science Foundation fellowship
F. A. Raymond, National Science Foundation fellowship
Alice T. Schafer, Senior National Science Foundation fellowship
Richard D. Schafer, own funds
S. Smale, National Science Foundation fellowship
E. H. Spanier, National Science Foundation Senior fellowship
W. F. Stinespring, National Science Foundation fellowship
Y. C. Wong, University of Hong Kong/Carnegie Corporation of New York

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Assistant funds:

S. Araki (Borel transfer to grant)	$4,500.00
G. E. Bredon (Montgomery transfer to grant)	4,500.00
U. Christian (Veblen)	4,500.00
W. Huebsch (Morse)	4,500.00
R. R. Phelps (Whitney)	4,500.00
H. Morikawa and/or K. Heegner (Weil transfer; not final)	4,500.00

In summary, as of April 1, 1958:

Total membership, 1958-59 55

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Since the meeting on April 1, 1958:

1. Professor Gödel asked that his assistant fund of $4,500 be transferred to a grant for the academic year 1958-59 for John Myhill to supplement his grant from the National Science Foundation.

2. Professor Warren Ambrose was invited to spend one month during this summer at the Institute with a salary of $1,000 from the Air Force contract.

3. Roland Fraïssé wrote that he cannot accept our invitation for the academic year 1958-59.

4. Solomon Feferman cannot obtain leave from Stanford and so will not be able to come to the Institute during 1958-59.

5. Timothy O'Meara has accepted a position at Princeton University during the fall of 1958, and is therefore unable to accept the Institute's invitation for that term.

6. Leo Zippin was invited to spend a six-weeks' visit at the Institute from June 10, 1958, with a salary of $1,500 from the Air Force contract.

7. Joseph J. Kohn has accepted a position at Brandeis University for next year and will not be at the Institute during 1958-59. The extension of his Office of Naval Research contract has been cancelled by ONR.

8. Professor Selberg appointed Karl E. Aubert his assistant with a salary of $4,000 for the academic year 1958-59.

9. Karl R. Stromberg cannot accept our invitation for 1958-59.

10. Pesi R. Masani was invited to spend a few weeks at the Institute in late June and early July as a summer visitor.

11. Daniel Ray was voted membership for the second term of 1958-59 during his Sloan Foundation fellowship.

12. Edgar Asplund was voted membership for the academic year 1958-59 during his Sweden-American Foundation fellowship.

13. Meyer Jerison was granted membership for the academic year 1958-59 with the support of sabbatical pay and additional funds from Purdue University.

14. Hans Grauert was voted an additional $1,000, raising his grant for 1958-59 to $6,000.

15. Azriel Lévy cannot accept an invitation for 1958-59, if it were made.

16. Leonard Gillman was granted membership for 1958-59 with support by a Guggenheim Foundation fellowship.

17. S. Minakshisundaram was invited to spend July 1958 at the Institute with a grant-in-aid of $1,000.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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18. The Air Force Office of Scientific Research contract for 1959-61 has been received.

19. The three Office of Ordnance Research contracts (Jenkins, Gray and Frankel) were received in the amounts requested.

20. With the termination of Princeton University's operation of the Electronic Computer Project, the School of Mathematics has acquired additional office space in the Computer Building.

21. Travel money in the amount of $592 has been sent to Hisasi Morikawa out of the $1,000 reserved for such a purpose.

22. Albert L. Whiteman found that he could not come for a summer visit in 1958.

23. Peter Hilton was invited to visit for a few days with a visitors fund grant of $100 or for two weeks with $300 some time during 1958-59. He has accepted the latter invitation.

24. Jean M. Calloway was invited to spend the second term of 1958-59 at the Institute as a member during his sabbatical leave from Carleton College.

25. The National Science Foundation contract for 1958-60 has been received in the requested amount of $48,000. Milton Lees and Minoru Nakaoka have been placed on it for 1958-59 with salaries of $5,100 and $5,500 respectively, thus releasing $9,500 from reservations in the School's grants-in-aid fund. Glen Bredon, who was originally voted membership and a grant transferred from Professor Montgomery's assistant fund, has been placed on the N.S.F. contract for 1958-59 with a salary of $5,100, thus releasing Professor Montgomery's assistant fund.

26. Frank Harary was invited to membership during the academic year 1958-59. His funds are from an Office of Naval Research grant administered by Princeton University.

27. Daniel Lacombe can come for the whole academic year 1958-59, and has been so invited with a salary of $5,100 from the National Science Foundation contract.

28. Wilhelm Stoll was voted an addition to his grant of $500, making his total grant $5,500 because of his hospitalization due to acute asthma.

29. Shôrô Araki's grant was raised by $300 upon his arrival when it was ascertained that he had one child. His grant is now $4,800, of which $4,500 was transferred from Professor Borel's assistant fund.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held October 7, 1958.

Present: Professors Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Weil and Whitney.

1. Membership for Gaisi Takeuti was confirmed for the second term of 1958-59. His grant comes from an award by the National Academy of Sciences--National Research Council. He is expected to arrive in January and we will probably be able to offer him office space and perhaps housing. [The Director will write officially.]

2. Membership was granted to Richard K. Lashof for the second term of 1958-59. His support will come from a government contract held by the University of Chicago. [The Director will write him officially, explaining that it may not be possible to furnish him with office space or housing.]

3. Dr. Oppenheimer reported on a situation in regard to Professors Gel'fand and Ladizenskaja.

4. It was voted that membership for the academic year 1959-60, or a part of this period, would be offered to E. B. Dynkin supposing that suitable arrangements can be made for his coming here. These arrangements might include a grant similar to those now being offered to Gel'fand and Ladizenskaja ($2,000 a month up to a term of three months). [Professor Borel will write him informally as to the possibility of his coming and the Director will communicate with authorities in Washington to help prepare the way.]

5. The problem of page charges by the American Mathematical Society for their publications was discussed. It is expected to take up this item again at some later time.

6. The School decided not to become an institutional member of the Society for Industrial and Applied Mathematics.

7. Membership was voted to Reinhold Remmert. However, decisions relative to grant, etc., will be held up pending the arrival of his application.

8. It was agreed that Professor Selberg should write informally to Carl L. Siegel to find out if he would be interested in paying a visit to the Institute for an undetermined length of time.

9. There was discussion of the granting of membership to several other mathematicians; this will be continued at the next meeting.

10. Arrangements with Andrew Gleason were confirmed, the money to be taken from one of the government contracts.

Hassler Whitney
Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held October 13, 1958:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Pais, Selberg, Strömgren, Weil, Whitney, and Yang.

1. The merits of the case for having T. D. Lee as a professor at the Institute were discussed. It was voted unanimously to recommend to the Full Faculty the appointment of T. D. Lee as professor.

Professors Pais, Strömgren, and Yang left the meeting.

2. Professor Weil presented plans for a revised Institute-University Mathematics Club. It will meet approximately once a month with talks of general interest to be given. It was voted to make $300 available from the Visitors Fund for the Mathematics Club, Professor Weil to be in charge of these funds.

3. It was voted to make $50 from the Visitors Fund available to each member of the Mathematics Faculty to be used as he sees fit in inviting speakers to the Institute. Use of the funds will be reported to Miss Underwood who will pass along the information to the School Faculty.

4. It was voted to offer membership to Edmund Hlawka with a grant of $3,500 for a term of the year 1959-60. [Professor Weil will write informally; the Director formally.]

5. It was voted to offer membership to Yutaka Taniyama for the academic year 1959-60 the grant to be the minimum plus $500. [Professor Weil will write informally.]

Hassler Whitney
Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held October 22, 1958:

Present: Professors Beurling, Borel, Gödel, Morse, Oppenheimer, Selberg, Weil, and Whitney.

1. It was voted to authorize an additional grant of at most $500 to Wilhelm Stoll, the amount to be determined after Dr. Oppenheimer has discussed the situation with Dr. Stoll. [The Director will write.]

2. It was voted to grant to Lee A. Rubel the status of Visitor during the summers of 1959 and 1960. He expects to be working under an Air Force Office of Scientific Research contract at the University of Illinois which will allow him to be at the Institute during the above summers. [The Director will write.]

3. It was voted to offer membership to Stephen Smale during the tenure of his National Science Foundation Postdoctoral Fellowship for the academic year 1959-60. [The Director will write.]

4. It was voted to increase all minimum grants by the amount of $500. This will make the minimum scale range from $4,500 to $5,500.

5. It was voted to offer membership for the academic year 1959-60 with grant of $5,000 to A. Haefliger. The assistant fund of Professor Whitney will be transferred to the grants fund for this purpose; if this is insufficient to cover the grant, then any additional required amount will be taken from the grants fund. [Professor Whitney will write informally.]

6. Michael F. Atiyah was voted membership for the first term of 1959-60 with a grant-in-aid of $2,500. If he does not obtain a Fulbright grant the amount will be increased to $3,000. [The Director will write.]

7. It was voted to grant Reinhold Remmert $5,500 during his membership in the academic year 1959-60, or a corresponding amount if he should be placed under a contract so as to allow for taxes. (This appears to be $6,500.) [Professor Whitney will write informally.]

8. Andrew Gleason will be placed under the Air Force Office of Scientific Research contract during his membership, second term of 1959-60, the amount to equal half of his academic salary. [Professor Whitney will write informally.]

9. It was voted to offer Lars Gårding membership for the first term of 1959-60 with a salary of $6,000 from the Air Force Office of Scientific Research contract. [The Director will write.]

10. It was voted to offer Peter D. Lax membership for the academic year 1959-60 with an amount equal to his present salary to come from the Air Force Office of Scientific Research contract. [Professor Whitney will write informally.]

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

11. It was voted to offer Henry B. Helson membership for the academic year 1959-60 with an amount equal to his present salary to come from the National Science Foundation contract. [Professor Whitney will write informally.]

12. Membership for a term of 1959-60 was voted for Paul Bernays with a grant of $3,500 transferred from Professor Gödel's assistant fund. [Professor Gödel will write informally.]

13. Membership for the academic year 1959-60 was voted for André Néron with a grant-in-aid of $5,500 to be raised to $6,000 if he cannot obtain a Fulbright grant. [The Director will write.]

14. It was voted to invite Hidegoro Nakano to visit the Institute for two weeks, or so, starting not earlier than September 15, 1959, and to invite him to give a lecture here. An honorarium of $500 from the Visitors Fund will be granted. [Professor Whitney will write.]

15. The proposal of Paul Dedecker was not viewed with favor. [Professor Whitney will write, explaining the limited resources of the Institute.]

16. Membership for the academic year 1959-60 was voted for Kurt Schütte with a grant-in-aid of $5,500 to be raised to $6,000 if he cannot obtain a Fulbright grant. [Professor Gödel will write informally to ascertain if Schütte is interested in coming.]

Hassler Whitney
Secretary

Since the last meeting, at the request of Professor Weil Hisasi Morikawa's grant was raised by $500 because it was learned that Morikawa's family consists of a wife and two children. The grant is, therefore, $4,500 (transferred from Professor Weil's assistant fund), $592 (for travel expenses), plus $500 totaling $5,592 for the academic year 1958-59.

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

October 22, 1958
Appointments, 1959-1960

Appointments with Institute grants-in-aid:

Remaining from 1958-1959			$36,058.87
Expected appropriation for 1959-1960			75,000.00
			$111,058.87
M. F. Atiyah (I) (also reserv'n)	$2,500.00		
A. Haefliger (also asst. trans.)	500.00		
F. Hirzebruch	4,500.00		
A. Néron (also reserv'n)	5,500.00	$13,000.00	
Reservations:			
M. F. Atiyah (I)	$ 500.00		
E. B. Dynkin	6,000.00		
I. M. Gel'fand	6,000.00		
E. Hlawka (one term)	3,500.00		
O. A. Ladyzenskaja	6,000.00		
A. Néron	500.00		
R. Remmert (or AFOSRC)	5,500.00		
K. Schütte	5,500.00 + $500		
W. Stoll	500.00		
Y. Taniyama	5,500.00	$40,000.00	-$53,000.00
			$58,058.87

Appointments with salaries from contracts:

Air Force Office of Scientific Research, AF 49 (638)-253, S/A 1, (58-433)
(Two-year contract, 1959-61, of which the following figures are one-half.)

Salaries, 1959-60			$35,200.00
Overhead (25 percent of salaries)			8,800.00
			$44,000.00
L. Gårding (I)	$6,000.00		
A. Gleason (II)	6,000.00, estimated		
P. D. Lax	7,000.00, estimated		
R. Remmert	6,500.00	$25,500.00	
Overhead (25 percent of salaries)		6,375.00	-$31,875.00
			$12,125.00

National Science Foundation contract G-5863, 1958-60:

Remaining in salaries from 1958-59			$ 4,600.00
Salaries, 1959-60			20,300.00
Overhead (15 percent of 1959-60 salaries)			3,045.00
(Travel to meetings, not included in total = $655.00)			$27,945.00
H. B. Helson	$8,000, estimated		
Overhead (15 percent)	1,200		-9,200.00
			$18,745.00

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Summary:	Assuming Remmert will be under AFOSR contract	
	Remaining from grants	$63,558.87
	Remaining from AFOSR contract	$12,125.00, includes overhead of 25 percent
	Remaining from NSF contract	$18,745.00, includes overhead of 15 percent

NOTE: About $40,000 may be needed for members who are here this year.

Usually a reserve is needed, to be held until contracts become final. Though the National Science Foundation and Air Force Office of Scientific Research contracts for next year are now final, we should hold some reserve for next year rather than build up a new reserve then.

Hassler Whitney
Secretary

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Minutes of a meeting of the School of Mathematics held November 19, 1958:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Weil, and Whitney.

1. It was decided not to invite Jürgen Moser during the year 1959-60.

2. It was voted to invite George Temple to membership for one term of the year 1959-60, to be under one of our government contracts with a salary of $5,000. [Professor Morse will write informally; the Director formally.]

3. It was voted to invite J.H.C. Whitehead to membership for the second term of 1959-60 with a grant of $4,000. [Professor Whitney will write informally; the Director formally.]

4. Membership was voted to Hirosi Toda for the academic year 1959-60, with the normal grant of $5,300; an additional $500 will be reserved in case he does not obtain travel funds. [The Director will write formally.]

5. Membership was voted to Max Deuring for the academic year 1959-60. A grant-in-aid of $6,500 will be reserved tentatively for this purpose. [Professor Weil will write informally to ascertain what the proper grant should be; the Director will write formally.]

6. It was voted to offer Nelson Dunford membership for the academic year 1959-60. We are not able to offer him funds. [Professor Whitney will write informally.]

7. Membership and the normal grant of $5,000 were voted for Takashi Ono for the academic year 1959-60. [Professor Weil will write informally; the Director formally.]

8. It was decided to drop the names of Barsotti, Godement, Hörmander, Kneser, Koecher and Seshadri from the list of names to be considered for 1959-60.

9. It was voted to send declinations to Dolbeault, Dombrowski, Helmberg and Yamamoto. [Professor Whitney will write.]

10. It was voted to decline the request for membership of Lester Dubins for 1959-60 on the grounds that he has been here for two years. [Professor Whitney will notify.]

11. It was voted to grant membership to Richard Palais, Robert Phelps, and Frank Raymond for the academic year 1959-60 during which time they will be National Science Foundation fellows. [The Director will write formally.]

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12. The new policy of the Annals of Mathematics, in regard to the gift rather than exchange of copies of the Annals, as outlined by Professor Weil, was approved.

13. Adrian A. Albert will be invited to give a lecture here some time this year with an honorarium of $100 from the Visitors Fund. [Professor Montgomery will write.]

14. Georg Kreisel will be invited to lecture in January, 1959, with an honorarium of $50. [Professor Morse will write.]

Hassler Whitney
Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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November 19, 1958

Appointments, 1959-1960

Appointments with Institute grants-in-aid:

Remaining from 1958-1959			$35,558.87
Expected appropriation for 1959-1960			75,000.00
			$110,558.87
M. F. Atiyah (I) (also reserv'n)	$2,500.00		
A. Haefliger (also asst. trans.)	500.00		
F. Hirzebruch	4,500.00		
A. Néron (also reserv'n)	5,500.00		
T. Ono	5,000.00		
R. Remmert (or contract)	5,500.00		
K. Schütte (also reserv'n)	5,500.00		
H. Toda (also reserv'n)	5,300.00		
J.H.C. Whitehead (II)	4,000.00	$38,300.00	
Reservations:			
M. F. Atiyah (I)	$ 500.00		
M. Deuring	6,500.00		
E. B. Dynkin	6,000.00		
I. M. Gelfand	6,000.00		
E. Hlawka (one term)	3,500.00		
O. A. Ladyzenskaja	6,000.00		
A. Néron	500.00		
K. Schütte	500.00		
H. Toda	500.00	30,000.00	-68,300.00
			$42,258.87

Appointments with salaries from contracts:

Air Force Office of Scientific Research, AF 49(638)-253, S/A 1, (58-433):
(Two-year contract, 1959-61, of which the following figures are one-half.)

Salaries, 1959-60			$35,200.00
Overhead (25 percent of salaries)			8,800.00
			$44,000.00
L. Gårding (I)	$6,000.00		
A. Gleason (II)	6,500.00		
P. D. Lax	7,000.00, estimated		
R. Remmert (or grant)	6,500.00	$26,000.00	
Overhead (25 percent of salaries)		6,500.00	-32,500.00
			$11,500.00

Office of Ordnance Research contract proposal:

Salaries, 1959-60		$16,000.00
Overhead (25 percent of salaries)		4,000.00
		$20,000.00
G. Temple, one term	$5,000.00	
Overhead (25 percent)	1,250.00	6,250.00
		$13,750.00

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National Science Foundation contract G-5863, 1958-60:

Remaining in salaries from 1958-59		$ 4,600.00
Salaries, 1959-60		20,300.00
Overhead (15 percent of 1959-60 salaries)		3,045.00
(Travel to meetings, not included in total = $655.)		$27,945.00
H. B. Helson (II)	$4,500, estimated	
K. Kodaira (II)	7,000	
Overhead (15 percent)	1,725	-13,225.00
		$14,720.00

Assistant funds:

P. Bernays (Gödel transfer to grants, Term II)	$3,500.00
U. Christian (Veblen)	4,500.00
A. Haefliger (Whitney transfer to grants)(+ grant)	4,500.00
W. Huebsch (Morse)	5,000.00

Appointments with other sources of funds:

N. Dunford, own funds
R. Palais, National Science Foundation fellowship
R. Phelps, National Science Foundation fellowship
F. Raymond, National Science Foundation fellowship
S. Smale, National Science Foundation fellowship

Summary:

Grants remaining uncommitted	$42,258.87
Salaries remaining from Air Force contract	9,200.00
Salaries remaining from proposed Ordnance contract	11,000.00
Salaries remaining from NSF contract	13,400.00

Hassler Whitney
Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
From the Shelby White and Leon Levy Archives Center, Institute for Advanced Study, Princeton, NJ, USA.

Minutes of a meeting of the School of Mathematics held December 17, 1958:

Present: Professors Beurling, Borel, Gödel, Montgomery, Morse, Oppenheimer, Selberg, Weil, and Whitney.

1. The School of Mathematics will welcome Carl L. Siegel here during 1960-61. [Professor Selberg will write informally.]

2. It was voted that the actual assignments of Members to contracts be left to Professor Whitney, with the consent of the Director.

3. It was voted to offer Henry B. Helson a salary of $4,800 during his membership in the second term of 1959-60. His salary is scheduled to come from a contract. [Professor Whitney will write informally; the Director formally.]

4. It was voted to offer Peter D. Lax a grant of $500, during the first term of 1959-60, assuming that he will come under a Sloan Foundation fellowship. [Professor Whitney will write informally.]

5. Glen E. Bredon was voted membership for the academic year 1959-60 with a salary of $5,800 which is expected to come from the National Science Foundation contract. [The Director will write.]

6. Branko Grünbaum was voted membership for the academic year 1959-60 with a salary of $6,000 which is scheduled to come from the Air Force Office of Scientific Research contract. [The Director will write.]

7. Minoru Nakaoka was voted membership for the academic year 1959-60 with a salary of $6,100 which is scheduled to come from the National Science Foundation contract. [The Director will write.]

8. Ichiro Satake was voted membership for the academic year 1959-60 with a grant of $5,000. [The Director will write.]

9. Hisasi Morikawa was voted membership for the academic year 1959-60 with a grant of $5,500. [The Director will write.]

10. Shôrô Araki was voted membership for the academic year 1959-60 with a grant of $5,300 of which $4,500 will be transferred from the assistant fund of Professor Borel. [Professor Borel will notify informally; the Director will write formally.]

11. Membership for Edgar Asplund for the academic year 1959-60 was voted. It is understood that he is awaiting action on his application to the Sweden-American Fund for a renewal of his fellowship. [Professor Beurling will notify him informally; the Director formally.]

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12. Membership for Jean Poncet for the academic year 1959-60 was voted. It is understood that he is awaiting action on his application to the Swiss Federal Institute of Technology in Zürich for a fellowship. [Professor Borel will write informally; the Director formally.]

13. Frantisek Wolf was voted membership for the first term of 1959-60 with a salary of $3,000 to supplement the salary that he will be receiving from his university. This $3,000 is scheduled to come from one of the government contracts, if satisfactory to Professor Wolf. [Professor Morse will write informally; the Director formally.]

14. (a) It was agreed to extend the membership of Paul Bernays from November 1959 through the second term of 1959-60 with a grant of $4,500. This will come from the School's grants-in-aid instead of from Professor Gödel's assistant fund. [The Director will write.]

(b) Membership for Djuro Kurepa was voted for a term of 1959-60 with a grant of $3,500 from a transfer of Professor Gödel's assistant fund. The Director will look into the possibility of his obtaining travel funds. [Professor Gödel will write informally; the Director formally.]

15. Leonard Gillman was voted membership for the academic year 1959-60 during his Senior National Science Foundation fellowship. [The Director will write.]

16. John F. Nash was voted membership for the first term of the academic year 1959-60 during his Senior National Science Foundation fellowship. [The Director will write.]

17. Emil Grosswald was voted membership for the academic year 1959-60 during his Senior National Science Foundation fellowship. [The Director will write.]

18. Robert F. Williams was voted membership for the academic year 1959-60 during his National Science Foundation fellowship. [The Director will write.]

19. Robert J. Wisner was voted membership for the academic year 1959-60 during his Science Faculty National Science Foundation fellowship. [The Director will write.]

20. It was voted not to offer membership to William G. Leavitt during his Science Faculty National Science Foundation fellowship. [Professor Whitney will write.]

Hassler Whitney

Secretary

Records of the School of Mathematics / Faculty Minutes / Box 1 / 1954-1958
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December 17, 1958

Appointments, 1959-1960

Appointments with Institute grants-in-aid:

Remaining from 1958-1959			$35,558.87
Expected appropriation for 1959-1960			75,000.00
			$110,558.87
S. Araki (also asst. trans.)	$ 800.00		
M. F. Atiyah (I) (also reserv'n)	2,500.00		
P. Bernays (II)	4,500.00		
A. Haefliger (also asst. trans.)	500.00		
F. Hirzebruch	4,500.00		
E. Hlawka (I)	3,500.00		
P. D. Lax (I)	500.00		
H. Morikawa	5,500.00		
A. Néron (also reserv'n)	5,500.00		
T. Ono	5,000.00		
R. Remmert (or contract)	5,500.00		
I. Satake	5,000.00		
K. Schütte (also reserv'n)	5,500.00		
H. Toda (also reserv'n)	5,300.00		
J.H.C. Whitehead (II)	4,000.00	$58,100.00	
Reservations:			
M. F. Atiyah (I)	$ 500.00		
M. Deuring	6,500.00		
E. B. Dynkin	6,000.00		
I. M. Gelfand	6,000.00		
O. A. Ladyzenskaja	6,000.00		
A. Néron	500.00		
K. Schütte	500.00		
H. Toda	500.00	26,500.00	-84,600.00
			$25,958.87

Appointments with salaries from contracts:

Air Force Office of Scientific Research, AF 49(638)-253, S/A 1, (58-433):
(Two-year contract, 1959-61, of which the following figures are one-half.)

Salaries, 1959-60			$35,200.00
Overhead (25 percent of salaries)			8,800.00
			$44,000.00
L. Gårding (I)	$6,000.00		
A. Gleason (II)	6,500.00		
B. Grünbaum	6,000.00		
R. Remmert (or grant)	6,500.00	$25,000.00	
Overhead (25 percent of salaries)		6,250.00	-31,250.00
			$12,750.00

Office of Ordnance Research contract proposal:

Salaries, 1959-60			$16,000.00
Overhead (25 percent of salaries)			4,000.00
			$20,000.00
H. B. Helson (II)	$4,800.00		
G. Temple (I)	5,000.00		
F. Wolf (I)	3,000.00		
Overhead (25 percent)	3,200.00		-16,000.00
			$ 4,000.00

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National Science Foundation contract G-5863, 1958-60:

Remaining in salaries from 1958-59		$ 4,600.00
Salaries, 1959-60		20,300.00
Overhead (15 percent of 1959-60 salaries)		3,045.00
(Travel to meetings, not included in total = $655.)		$27,945.00
G. E. Bredon	$5,800.00	
K. Kodaira (II)	7,000.00	
M. Nakaoka	6,100.00	
Overhead (15 percent)	2,835.00	-21,735.00
		$ 6,210.00

Assistant funds:

S. Araki (Borel transfer to grants)(+ grant)	$4,500.00
U. Christian (Veblen)	4,500.00
A. Haefliger (Whitney transfer to grants)(+ grant)	4,500.00
W. Huebsch (Morse)	5,000.00
D. Kurepa, a term (Gödel transfer to grants)	3,500.00

Appointments with other sources of funds:

E. Asplund, own funds
N. Dunford, own funds
L. Gillman, Senior National Science Foundation fellowship
E. Grosswald, Senior National Science Foundation fellowship
J. F. Nash, Senior National Science Foundation fellowship
R. Palais, National Science Foundation fellowship
R. R. Phelps, National Science Foundation fellowship
J. Poncet, own funds
F. Raymond, National Science Foundation fellowship
S. Smale, National Science Foundation fellowship
R. F. Williams, National Science Foundation fellowship
R. J. Wisner, Science Faculty National Science Foundation fellowship

Summary:

Grants remaining uncommitted	$25,958.87
Salaries remaining from Air Force contract	10,200.00
Salaries remaining from proposed Ordnance contract	3,200.00
Salaries remaining from NSF contract	6,000.00

Hassler Whitney
Secretary