Beurling note to file. (E. Mosner- March 9, 2010)

This folder culled from a box that had been shelved (unprocessed) alphabetically within the Faculty series collection. The box was marked: "Faculty/Beurling, Arne [Binders in cage: 2 black, 3 blue -- transferred here 6/2000]." The materials in the box had been removed from the binders and foldered. The folders were marked only with the color of the binder from which the contents had come and it was noted on each folder that the materials still needed processing.

In 2009/2010, Erica Mosner further processed the contents, which spanned the years 1955-1971. Materials deemed appropriate for the Faculty series collection were placed in this folder. The remaining materials were separated into School of Mathematics and Faculty/General and placed in chronologically ordered folders as sorted separations that will be further culled at a later date.

FINAL REPORT

1966 SUMMER INSTITUTE

on

ENTIRE FUNCTIONS AND RELATED PARTS OF ANALYSIS

June 27 to July 22, 1966

FINAL REPORT

1966 SUMMER INSTITUTE

on

ENTIRE FUNCTIONS AND RELATED PARTS OF ANALYSIS

The thirteenth summer institute of the American Mathematical Society was held from June 27 to July 22, 1966, at the University of California, San Diego, in La Jolla. Financial support was provided by the National Science Foundation.

The subject of the institute was selected by the American Mathematical Society Committee on Summer Institutes consisting of P. T. Bateman, P. J. Cohen, G. D. Mostow (chairman), M. H. Protter, E. Stein, and C. B. Tompkins.

Organization

The Invitations Committee consisted of A. Beurling of the Institute for Advanced Study; R. P. Boas of Northwestern University; L. Ehrenpreis of the Courant Institute, New York University; W. Fuchs of Cornell University; J. Korevaar of the University of California, San Diego; and L. A. Rubel of the University of Illinois.

R. P. Boas was chairman of the committee but was unable to participate in the institute because of other commitments. J. Korevaar, in charge of local arrangements, acted as chairman during the meeting. The other members of the committee (with the exception of A. Beurling, who was unable to attend because of illness) each organized a series of lectures.

Program

One of the purposes of the institute was to acquaint the "classical" entire functions people with the new methods provided by functional analysis, algebra, Fourier analysis, and the theory of manifolds. The "modern" people, on the other hand, were to be provided with surveys of recent developments in the "classical" areas. To carry out these objectives, lectures were organized in four principal sections as follows.

I. _Complex Analysis from the point of view of Mapping of Manifolds_. The committee, having no particular competence in this area, was fortunate enough to find S. S. Chern of the University of California, Berkeley, willing to organize this part of the program. Lectures were presented by E. Bishop, S. S. Chern (4), F. W. Gehring (2), B. Rodin, L. Sario (2), W. Stoll (2), and H. Wu.

II. _Fourier Methods_. _L. Ehrenpreis_ organized a series of lectures on the applications of complex Fourier analysis. Lectures were presented by L. Coburn (2), L. Ehrenpreis (3), J. Kazdan (2), D. J. Newman (2), S. M. Shah, and P. van Goethem.

III. <u>Distribution of Values</u>. <u>W. Fuchs</u>, chairman. A wide variety of topics from "classical" entire function theory (and related areas) were covered by J. Clunie, E. Collingwood, H. Delange, W. H. J. Fuchs, D. Gaier, T. H. Ganelius, A. Gray, F. Gross, W. Hayman (2), A. Hyllengren, W. Al-Katifi, J. Korevaar (2), B. Lepson, T. McCoy, C. Pommerenke, and A. Schumitzky.

IV. <u>Function Spaces</u>. <u>L. A. Rubel</u> organized a series of lectures dealing with function theoretic methods in complex analysis. Lectures were given by N. L. Alling, L. de Branges, J. J. Kelleher (2), H. J. Landau, B. Logan, L. A. Rubel (2), and B. A. Taylor (2).

Lectures on <u>miscellaneous topics</u> were given by E. J. Akutowicz, A. Dvoretzky, P. Koosis, G. Labelle, H. J. Landau, P. Lelong, P. Noverraz, A. L. Shields, and H. Wilf.

Until the institute opened, the committee was anxious to limit the number of formal sessions to two a day, four days a week, so that all participants would be able to attend all formal lectures. However, people were so eager to speak that the first week's program already listed three lectures a day. By the middle of the second week it became clear that there were not enough expository lectures, and, therefore, one expository talk was added each day. During the final week daily problem sessions brought the total number of scheduled sessions to five a day. In addition, there were numerous small informal meetings.

Lecture Notes

Speakers provided notes on thirty-three lectures, which were typed up by an office staff of three for offset reproduction. Three hundred such sets, collected in a paper-bound volume, were made available for distribution. Copies of the lecture notes were sent to the National Science Foundation; one copy was mailed to each of the seventy-three participants; and one copy was sent to each of the mathematicians who had been invited but was unable to attend. The remaining sets will be distributed by the Society to individuals on request.

Papers and problems arising from the institute are to be published by the Society in 1967 in a volume of the series, <u>Proceedings of Symposia on Pure Mathematics</u>, to be edited by the Invitations Committee with R. P. Boas and J. Korevaar as editors.

Participants

The institute was attended by seventy-three mathematicians, who were accompanied by twenty-three spouses and forty-four children. Twenty-two participants were from foreign countires. Unfortunately, the Society was not able to obtain permission to invite participants from the Soviet Union.

A list of participants with their affiliations is included as a supplement to this report.

Living Accommodations and Services

The institute was held at the University of California, San Diego, in La Jolla. Living accommodations were made available in the Revelle College residence halls for all who desired them. Several participants chose to rent private accommodations in which they were assisted by the University Housing Office. Meals were provided by the Revelle College cafeteria, either on a meal ticket or on a per meal basis. Each participant paid a registration fee of $10.00 to cover the cost of coffee and tea service (provided mornings and afternoons), and the cost of social and recreational activities for the group.

The 1966 Summer Institute wishes to acknowledge the help it received, both in the planning stage and during the meetings, from the Department of Mathematics of the University of California, San Diego. J. A. Blackstock, in charge of the Revelle College residence halls, was a cheerful trouble shooter. It was a pleasure to work with Gordon L. Walker, Executive Director of the American Mathematical Society, and Jacqueline Walker, even if it was by telephone or mail most of the time. However, on the not always perfectly organized new San Diego campus, the institute could not have been successful without the indefatigable Mrs. Barbara Smith, the A. M. S. secretary "sent by Providence."

Respectfully submitted,

Jacob Korevaar
Acting Chairman

jk/jw
9/13/66

Participants

E. J. Akutowicz
Faculté des Sciences
Montpellier, France

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University College
London, England

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University of Notre Dame

John J. Benedetto
Institute for Fluid Dynamics and Applied
Mathematics
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R. Creighton Buck
University of Wisconsin

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Leon Ehrenpreis
Courant Institute of Mathematical Sciences

Judith M. Elkins
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Leopold Flatto
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London, England

Seymour Haber
National Bureau of Standards

Simon Hellerstein
University of Wisconsin

Participants – Page 2

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Columbia University

C. O. Kiselman
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Stockholm, Sweden

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Jacob Korevaar
University of California, San Diego

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Bell Telephone Laboratories

Benjamin Lepson
Naval Research Laboratory

Inda Lepson
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P. J. Lelong
Université de Paris

Jacqueline Lelong
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Yung-Chen Lu
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Morris Marden
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University of California, San Diego

Lee A. Rubel
University of Illinois

Walter Schnieder
Syracuse University

Alan Schumitzky
University of California, Berkeley

S. M. Shah
University of Kansas

Daniel F. Shea
University of Wisconsin

Allen L. Shields
University of Michigan

Wilhelm Stoll
University of Notre Dame

D. A. Storvick
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B. A. Taylor
University of Michigan

Maynard D. Thompson
Indiana University

Pierre van Goethem
City College of New York

S. E. Warschawski
University of California, San Diego

Herbert S. Wilf
University of Pennsylvania

David L. Williams
University of Michigan

Hung-Hsi Wu
University of California, Berkeley

Kung Yao
University of California, Berkeley

R. N. Hevener, Jr.
University of Virginia

<u>Recreation Program</u>

1966 Summer Institute

on

Entire Functions and Related Parts of Analysis

The official recreation program of the institute began with a get-acquainted cocktail party in the University of California, San Diego, art gallery. This was sponsored by the Department of Mathematics, with additional funds provided by General Atomic, representing local industry.

In honor of the 4th of July, a picnic was held on the beach at Scripps Institution, with fried chicken, watermelon, beer, swimming, and sun.

Two Sunday excursions were taken by interested participants: a trip to the Mount Palomar Observatory and a bus trip to Tijuana. On the latter occasion, in spite of the complications inherent in crossing an international border, no one was lost, and all tourists, domestic and foreign, were returned safely to La Jolla.

The institute closed with a buffet supper and champagne party, perpared and served by the wives of the members of the committee and of several of the local participants, as well as by Professor Korevaar.

Funds for the various functions, as well as for morning coffee and doughnuts and afternoon tea on the days of regularly-scheduled lectures, were provided from the ten dollar fees paid by institute registrants.

Organizational skill and inspiration were provided by Professor Korevaar, who also provided ideas and route instructions for private excursions and hospitality (with the capable assistance of Mrs. Korevaar) at his home on Saturday nights. The and secretaries of the Department of Mathematics took care of many arrangements and were a dependable source of useful information.

bns/jw
8/14/66

Svenska Matematikersamfundet
Box 23015
Stockholm 23
Postgiro 43 43 50

Till samfundets medlemmar

1. Protokoll från årsmötet den 4 juni 1966 bifogas.

2. Som framgår av protokollet fastställdes årsavgiften för verksamhetsåret 1966/67 till oförändrat 10 kr. Till samfundets årligen betalande i Sverige bosatta medlemmar bifogas inbetalningskort. För undvikande av missförstånd påpekas att detta är den första uppmaning om betalning för innevarande verksamhetsår, som utsändes till medlemmarna. V.g. påpeka särskilt på kupongen eventuell adressförändring. Senare inträffade adressförändring anmäles lämpligen enligt punkt 3 nedan.

3. Samfundets ständiga medlemmar, som inte har möjligheten att anmäla eventuell adressförändring vid avgiftsbetalning, uppmanas att använda postverkets portofria blankett 2050.05 för ändamålet.

4. Följande preliminära program för verksamhetsåret har fastställts av styrelsen:

   26/11 Göteborg: Se punkt 5 nedan
   11/3   Stockholm: Naturvetenskapliga och tekniska tillämpningar
   27/5   Umeå: Årsmöte, universitetspedagogik

   Samtliga möten avses även omfatta föredrag av traditionell typ, utan samband med mötets huvudinriktning. Medlemmarna och övriga intresserade (t.ex. utländska gäster vid institutionerna) inbjudas härmed såväl att hålla sådana föredrag som att bidraga med programpunkter i linje med resp. mötes huvudinriktning. Anmälan skall göras till undertecknad senast 15 dagar före resp. möte. I allmänhet kommer ingen preliminär kallelse att utsändas före de olika mötena utan endast ett definitivt program.

5. Medlemmarna hälsas välkomna till möte i Göteborg lördagen den 26 november 1966. Mötet beräknas taga hela dagen i anspråk med tillfälle till sällskaplig samvaro under kvällen och eventuellt någon liknande aktivitet under söndag förmiddag. Halva mötesdagen beräknas ägnas åt matematikens tillämpningar inom ekonomien och besläktade vetenskaper. Styrelsen mottager tacksamt anmälan om aktivt deltagande i form av föredrag eller på annat sätt.

Sådan anmälan göres senast 11/11 1966 till

Universitetslektor Göran Björck   Professor Tord Ganelius
Kvarnvägen 13   Göteborgs universitet
Sollentuna   eller   Vasaparken
Tel. 08/96 19 80   Göteborg C
                                            Tel. 031/20 43 60

Stockholm den 1 november 1966

/Göran Björck/, sekr.

Protokoll fört vid Svenska Matematikersamfundets årsmöte i Lund
lördagen den 4 juni 1966

1. Godkändes den av samfundets ordförande upplästa föredragningslistan och valdes denne att leda årsmötet. Att föra dagens protokoll uppdrogs åt lokalombudet i Lund Bengt Gamstedt.

2. R.Gustavsson och J.Thompson valdes till justeringsmän.

3. Styrelseberättelsen för 1965-66 föredrogs, godkändes och lades till handlingarna.

4. Revisionsberättelsen för 1965-66 föredrogs och lades till handlingarna.

5. Styrelsen beviljades ansvarsfrihet för det gångna verksamhetsåret.

6. Vad gällde kontaktnämnden förelåg inga handlingar och samfundets ordf. meddelade att han ej under verksamhetsåret kallats till något sammanträde.

7. Till ordförande valdes T.Ganelius, till vice ordförande Y.Domar, till skattmästare B.Kjellberg, till sekreterare G.Björck och till femte styrelsemedlem B.Langefors.

8. Till lokalombud valdes: Uppsala: L.I.Hedberg, Lund: A.Tengstrand, Göteborg: J. Lönnroth, Stockholm: M.Essén och Umeå: A.Nordlander.

9. Till medlemmar av kontaktnämnden valdes B.J.Andersson, S.Danielsson och H.O.Kreiss. Dessutom är samfundets ordf. självskriven.

10. Till revisorer valdes K.Dagerholm och G.Kjellberg, till revisorssuppleanter C.O. Kiselman och B.Rosén.

11. Medlemsavgifterna fastställdes till oförändrat 10 kr/år och 100 kr för ständigt medlemskap. Årsmötet uppdrog åt styrelsen att överväga om ej tiden var inne för en avgiftshöjning till t.ex. 15 kr/år, då detta bl.a. skulle öka samfundets möjligheter att mindre snålt ersätta t.ex. föredragshållares reseutgifter.

12. Till kommitté för matematiktävlingen valdes H.Rådström (ordf.), L.I.Hedberg, A. Tengstrand, V.Thomée, I.Wik.

13. Samfundet hade tidigare till revisorer i Nordisk matematisk tidskrift för åren 1965-1968 utsett T. Ganelius och O.Njåstad. Då nu avsägelse förelåg från Njåstad utsågs lektor Kåre Dalen, Oslo till revisor för nämnda period.

14. Förra årsmötet hade uppdragit åt styrelsen att i samarbete med kontaktnämnden utarbeta ändrade stadgar för kontaktnämnden, garanterande insyn för samfundets revisorer.
Samfundets ordf. meddelade att man efter konferens med kontaktnämndens ombudsman beslutat föreslå att i instruktionen för Svenska Matematikersamfundets Kontaktnämnd

till tidigare lydelse av §10:

"Samfundet och dess styrelse skall då detta befinnes påkallat kunna kräva redogörelse för kontaktnämndens verksamhet. Sådan redogörelse skall för övrigt lämnas varje år till samfundets årsmöte"

tillfogas:

"och skall samfundets revisorer granska kontaktnämndens räkenskaper och verksamhet".

Ändringen beslöts av årsmötet.

15. Till medlemmar i samfundet valdes tekn.lic. Mats Rudemo och fil.mag. Rolf Gustavsson, båda Göteborg.

16. Föredrag enligt tidigare utsänt program.

Vid protokollet

Bengt Gamstedt.

Bengt Gamstedt

Justeras

Rolf Gustavsson

Jan Ohnenson

UPPSALA UNIVERSITETS

MATEMATISKA INSTITUTION

Till

K. Vetenskapsakademins förvaltningsutskott.

Jag har blivit anmodad att redogöra för förvaltningsutskottet för min syn på vissa frågor som rör organisationen av ledningen av Mittag-Lefflers matematiska stiftelse, om den planerade utvidgningen kan realiseras.

De här aktuella frågorna är givetvis detaljer i planerna för ut-byggnaden, där enighet råder om huvudsakerna. Det är därför mycket olyckligt att de aktualiserats så tidigt och kommit att spela en så stor roll i diskussionen. Vidare tror jag att meningsmotsättningarna överdrivits beroende på att frågan inte tillräckligt diskuterats inom det primärt ansvariga organet, nämligen stiftelsens styrelse. Jag vill här helt ansluta mig till de synpunkter som Herr Gårding anfört i en skrivelse till styrelsen, vilken också tillställts förvaltningsutskot-tets medlemmar. Det är givetvis mycket komplicerat att med nuvarande organisation diskutera problem inom styrelsen och en klar och effekti-vare stadga förefaller helt nödvändig. Intill en sådan fastställts, måste emellertid viktigare ärenden handläggas på det otympliga sätt som Herr Gårding nämner.

Min slutsats blir därför att ärendet är otillräckligt förberett för beslut av akademin och bör tas upp på nytt inom styrelsen. Av denna anledning anser jag mig inte här böra gå in på själva sakfrågan. Det är min övertygelse att man med sakliga diskussioner inom styrelsen skall finna en rättvis och för alla parter godtagbar lösning. Om klarhet nu nås beträffande proceduren för problemets avveckling, är det min för-hoppning att det skall bli möjligt att föra de långt viktigare frågor vidare, där enighet råder.

Uppsala den 18 januari 1967

Lennart Carleson

KUNGL. VETENSKAPSAKADEMIEN

Transumt ur protokoll fört vid samman-
träde onsdagen den 25 januari 1967
med Kungl. Vetenskapsakademiens för-
valtningsutskott

8 §

Vid sammanträde den 5 december 1966 med herrar Frostman, Carleson och -
såsom förvaltningsutskottets representant - Granit rörande frågan om
ansvar för ledningen vid Mittag-Leffler-stiftelsen efter en utvidgning
av verksamheten där hade Granit anmodat herr Carleson att till förvalt-
ningsutskottet inkomma med skrivelse med sina synpunkter på frågan.

I skrivelse den 18 januari 1967 hade herr Carleson framhållit som sin
mening, att ärendet vore otillfredsställande förberett för beslut av
akademien och därför borde tas upp på nytt inom stiftelsens styrelse.

Preses, herr Frostman redogjorde för vad som i övrigt förekommit vid hand-
läggningen av frågan om utvidgning av stiftelsens verksamhet. Herr Frost-
man var därefter ej närvarande vid förvaltningsutskottets behandling av
ärendet.

Sekreteraren, herr Rudberg framförde, att herr Frostman önskat att för-
valtningsutskottet fattade beslut angående bl a formerna för den fort-
satta handläggningen av ärendet.

I diskussion yttrade sig herrar Granit, Rudberg, Odqvist, Fredga, Lang,
Lundberg, Zotterman, Hörstadius och Thordeman.

Förvaltningsutskottet beslöt göra följande uttalande.

Förvaltningsutskottet fann det uppenbart att Makarna-Mittag-Lefflers mate-
matiska stiftelse hos Vetenskapsakademien vore underställd akademien som
en institution och akademiens egendom samt att varje förändring beträffan-
de verksamheten vid stiftelsen samt organisationen och ledningen av den-
samma måste godkännas av akademien.

Enligt förvaltningsutskottets mening vore frågan om en aktivering av verk-
samheten vid stiftelsen ytterst betydelsefull och enligt utskottets mening
borde man med kraft verka för att sådana planer förverkligades. Även inom
akademien hade man med tillfredsställelse tagit del av planerna på en ut-
vidgning av stiftelsens verksamhet och konstaterat, att en väsentlig förut-
sättning för genomförande av planerna vore, att en professur, bekostad med
statsmedel, kunde knytas till akademien.

Vid besök, som representanter för utskottet gjort hos statsrådet Edenman
den 10 november 1966, hade statsrådet framhållit, att en statlig professur
inte för närvarande kunde inrättas vid akademien, men att en personlig
forskningsprofessur, som sedermera inrättats vid Uppsala universitet för
herr Carleson, möjligen kunde överflyttas till akademien sedan planerna för
utvidgning av Mittag-Lefflerinstitutets verksamhet närmare utretts och fi-
nansieringen säkerställts.

Enligt förvaltningsutskottets mening borde, med hänsyn till vad som före-
kommit, i första hand frågan angående formerna för en utvidgning av stif-
telsens verksamhet utredas. Samtidigt borde de ekonomiska konsekvenserna
av en utvidgning ävensom vilka möjligheter som stode till buds för finansi-
ering av planerna utredas. Först sedan resultatet av dessa utredningar

förelåge kunde frågan angående stiftelsens ledning och administration,
inrättande av befattningar m m tagas upp till behandling i förvalt-
ningsutskottet och akademien. Intill dess borde under alla förhållanden
den nuvarande verkställande ledamoten av stiftelsens styrelse herr
Frostman, fullgöra de uppgifter inom styrelsen, som anförtrotts honom.

Utskottet beslöt vidare förklara sig instämma i herr Granits yttrande
till protokollet den 7 december 1966 (9§) i de delar yttrandet avsåge
herr Frostmans ställning inom stiftelsen.

- -

Vid protokollet
Kai-Inge Hillerud
Kai-Inge Hillerud

Justerat den 8 februari 1967
Ragnar Granit

Rätt avskrivet intygar:

Elisabeth Björkman

Till

Medlemmarna av Styrelsen för Mittag-Lefflers
Matematiska Stiftelse.

Projekteringen av byggnad för gäster och för ombyggnad, som sty-
relsen i princip anslöt sig till vid sammanträde i september 1966,
har nu framskridit så långt att ansökan om anslag kan göras. Wallen-
bergstiftelsen har upprepade gånger diskuterat saken och det förefaller
nu finnas goda utsikter erhålla pengar därifrån.

Ansökan bör göras av Vetenskapsakademin, och förvaltningsutskottet
avser att behandla frågan vid sammanträde den 26 april 1967. Jag har
diskuterat handläggningen av frågan med verkställande ledamoten, Herr
Frostman, som var av den meningen att denna fråga genom beslutet i
september överlämnats till Akademin och att därför någon förnyad be-
handling i Styrelsen av det aktuella projektet ej erfordrades före den
26/4. Med hänsyn till att det torde bli nödvändigt med ett styrelsesam-
manträde i maj efter Wallenbergstiftelsens sammanträde (i början av maj)
för att besluta om den vidare handläggningen, vill jag ej heller yrka
på ett sammanträde även i april. Handlingarna blir emellertid klara i
början av april och ett sammanträde kan ur den synpunkten anordnas efter
den 10 april om några av styrelsens medlemmar anser det önskvärt.

                              Uppsala den 16 mars 1967
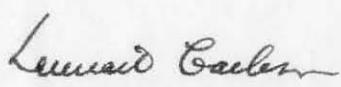
                              Lennart Carleson

Professor Beurling:

This is for your files - if you want it. I hope you have received the Institute's Check.

CD Underwood

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PRINCETON, NEW JERSEY

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ORIGINAL INVOICE

ACTA MATHEMATICA 1/7 - 30/9 1967

Inkomna manus

Författare	Titel	Antal sidor	Åtgärd
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Pym, J.S.	Dual structures for measure algebras.	54	Ref: Hewitt, E.
Mrowka, S.G.	Further results on E-compact spaces. I.	50	Ref: Hanner, O.
Segal, R.	Generalized Bernoulli numbers and the theory of cyclotomic fields.	40	Ref: Leopoldt, H.W.
Gupta, C.K.	A faithful matrix representation for a class of certain soluble groups.	79	Tillfrågade: Lech, C. och Cohn, P.M.
Eaves, D.M.	Prediction theory over discrete Abelian groups. (Omarbetat.)	26	Ref: Forelli, F.
Taylor, J.L.	Ideal theory and Laplace transforms for a class of measure algebras on a group.	80	Ref: Rossi, H.
Malviya, B.D.	A note on hyponormal operators.	6	Ref: Carleson, L. Återsänt.
Francis, G.K.	The folded ribbon theorem.	46	Tillfrågad: Atiyah, M.F.
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Sibuya, Y.	Subdominant solutions of the differential equation $y'' - \lambda^2 (x - a_1)(x - a_2) \ldots (x - a_m)y = 0$.	61	Ref: Wasow, W. Antaget.
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Wu, H.	Normal families of holomorphic mappings. (Omarbetat.)	71	Ref: Chern, S.S. Antaget.

UNIVERSITETET I OSLO

INSTITUTT FOR MATEMATISKE FAG
AVD. A: MATEMATIKK
AVD. B: MEKANIKK
AVD. C: STATISTIKK OG FORSIKRINGSMATEMATIKK
AVD. D: NUMERISK ANALYSE

BLINDERN, OSLO 3, 28th Nov. 1967
TELEFON *46 68 00

Dear Professor Beurling,

In connection with the 15th Svandinavian Congress
of Mathematicians to be held in Oslo August 12th - 16th 1968
it has been decided that a limited number of mathematicians
should be invited to give a one-hour lecture at the congress.
Please consider this letter an invitation to do so. The choice
of topic is of course up to yourself. However, a one-hour
lecture should perhaps be one of broader scope rather than a
technical one. Narurally you are also welcome to talk upon
any mathematical subject you like in the ordinary 20 minute
sessions. We plan to publish all one-hour lectures in full
in the Congress proceedings, however no 20 minute lectures will
appear (except for titles).

Conceivebly the principal talks may need some coordi-
nation. For this and other reasons we should like to hear
from you as soon as possible. Please mail your answer to the
address below.

For the Organizing Committee
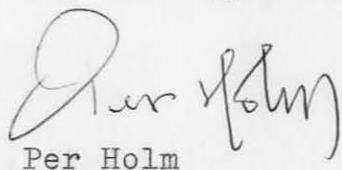
Per Holm

Congress Service,
Box 55,
Blindern-Oslo 3
Norway

STATE UNIVERSITY OF NEW YORK

AT STONY BROOK

STONY BROOK, LONG ISLAND, NEW YORK

11790

**COLLEGE OF
ARTS AND SCIENCES**

DEPARTMENT OF MATHEMATICS

October 27, 1967

Professor A. Beurling
Institute for Advanced Study
Department of Mathematics
Princeton, New Jersey

Dear Professor Beurling:

Professor Edwin Hewitt of the University of Washington
visited us earlier this week and expressed some interest
in a position at Stony Brook. In order to offer him
a salary that would be sufficiently attractive, the
Board of Trustees require that we obtain letters of
recommendation from the most outstanding mathematicians
who are familiar with his field. We should therefore
greatly appreciate your evaluation of his mathematical
ability as compared with other harmonic analysists.

Sincerely,

William D. Barcus

William D. Barcus
Acting Chairman

WDB/kc

L.S. = lectori salutem = greetings to the reader

SWETS & ZEITLINGER N.V. Booksellers. – KEIZERSGRACHT 471 – AMSTERDAM- HOLLAND.

Our ref.: GEN/WB.   December 1967.

L.S.,

May we ask whether you possess a copy of some of the undermentioned periodicals, which you might be willing to make available for disposal.

On receipt of your reply, we shall be glad to submit a bid.

Acta mathematica. Vol. 1–116. (1882–1966).

Arkiv för Matematik. Vol. 1-6 (1950–1966).

Arkiv för Matematik, Astronomi och Fysik. Vol. 1-36 (1903–1949).

Commentationes Physico-mathematicae. 1922–1966.

Acta mathematica et physica. (Ac Aboen). 1922–1966.

Mathematica Scandinavica. Vol. 1-16 (1953–1966).

Nordisk Matematisk Tidskrift. Vol. 1-14 (1953–1966).

Matematisk Fysiske Meddelelser. 1919–1966.

Also other periodicals in the same field such as:

Mathematische Zeitschrift.
Archiv der Mathematik.
Deutsche Mathematiker Vereinigung, Jahresberichte.
Journal für die reine und angewandte Mathematik.
Mathematical Reviews.
Mathematische Annalen.
Proceedings. London mathematical Society.

Cost of forwarding to our account. Payment upon receipt of the volumes, by cheque on our bank.

Thanking you in advance for your reply, we remain,

SWETS & ZEITLINGER N.V.

P.S.
We are also interested in partial sets or single volumes.

MATHEMATICS INSTITUTE

UNIVERSITY OF WARWICK

COVENTRY

DAVID H. FOWLER
MANAGER OF THE RESEARCH CENTRE

TELEPHONE: COVENTRY 0203–67788

14 December 1967

Professor A. Beurling
The Institute for Advanced Study.
Princeton

Dear Professor Beurling,
    Thank you for your letter. We are very pleased that you are able to come next Easter, and I will arrange suitable accomodation for you. There is no urgency about giving exact details as you will be coming at a time when finding accomodation should not any problems.

        Yours sincerely

        David Fowler

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

April 2, 1968

Professor E. C. Zeeman
Mathematics Institute
University of Warwick
Coventry, England

Dear Professor Zeeman:

Thanks for your letter of March 19th and for the arrangements for my visit made by you and Mr. Fowler. I will arrive in London as scheduled on April 18th with flight BA596 and plan to continue the same day by train to Coventry. The BOAC's office in New York has already sent me the ticket.

Please do not bother to send anyone to meet me in London. If I should need transportation from Coventry I will call the Mathematics Institute.

Sincerely yours,

Arne Beurling

ABcdu
CC: Mr. D. H. Fowler

P.S. The title of my lecture May 16th will be "Some problems in local harmonic analysis".

A.B.

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

April 2, 1968

Mr. D. H. Fowler
Mathematics Institute
University of Warwick
Coventry, England

Dear Mr. Fowler:

My sincere thanks for your helpfulness in connection with my visit.

Since Professor Zeeman might be in France during the near future I am herewith enclosing a copy of my letter to him.

Sincerely yours,

Arne Beurling

ABcdu
Enclosure

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

November 8, 1967

Mr. Herbert Kondo
175 West 76th Street
New York, N. Y. 10023

Dear Mr. Kondo:

In connection with your recent request to Dr. Kaysen and his
answer to you, I want you to know these facts.

Einstein used several offices at the Institute during different
periods of his life in Princeton. None of these offices has been
given a commemorative or otherwise distinctive nature. Furniture and
the general physical appearance of these rooms has certainly changed
considerably during the last twelve years.

If you nevertheless want to see the room once occupied by Einstein
and now serving as my office, you are welcome to do so. In case I am
not available at the time of your visit Miss Underwood, who is the
Secretary of the School of Mathematics, has promised to help you.

Sincerely yours,

Arne Beurling

ABcdu
CC: Dr. Kaysen

COPY

November 7, 1967

Mr. Herbert Kondo
175 West 76th Street
New York, New York 10023

Dear Mr. Kondo:

The office which Professor Einstein
occupied here is now occupied by Professor Arne Beurling
of the Mathematics Faculty. It is entirely a matter
of his convenience whether he wishes to show it to you,
and I suggest you write to him directly.

Sincerely yours,

Carl Kaysen

cc: Professor Beurling

175 West 76th St.
New York, N.Y. 10023
November 6, 1967

Dr. Carl Kaysen
Director
Institute for Advanced Studies
Princeton, New Jersey

Dear Dr. Kaysen:

    I am preparing a biography of Albert Einstein for
youngsters (age 14-18), to be published by Franklin Watts,
Inc., a leading publisher of children's books. By now you
probably know what I am going to ask: Would it be possible
for me to visit Einstein's room(s) in the Insitute? I
would like to arrange for the visit to be scheduled, if
possible, on Friday, November 17, or, if more convenient,
some time during the early part of Thanksgiving week.

                         Sincerely yours,

                         H Kondo

                         Herbert Kondo

175 West 76th St.
New York, N.Y. 10023
November 10, 1967

Dr. Arne Beurling
School of Mathematics
Institute for Advanced Study
Princeton, New Jersey 08540

Dear Dr. Beurling:

I would like to thank you for agreeing to allow me to visit
your office, which was Einstein's former office. As very little
of the original "setting" has been preserved, however, I think
it would be best not to inconvenience you with such a visit.

I had forgotten that Einstein had had more than one office.
Over the years that I corresponded with Einstein, he used to
put Room 115 over the return address on the envelope. And a
mutual colleague informs me that he recalls that Einstein at
one time had Room 209. But he admits to having a poor memory.

I'm sorry I put you to such a bother, Dr. Beurling. Thank
you, though, for your courtesy.

Sincerely yours,

Herbert Kondo

Department of Mathematics
San Diego State College
San Diego, California 92115
June 11, 1968

Dear Professor Beurling,

I am currently a graduate student in the Department of Mathematics at San Diego State College. My area of concentration is in Harmonic Analysis: Specifically, I have recently begun research investigating an algebra first studied by N. Wiener which is requiring a close analysis of 'convolution algebras' (with respect to Tauberian theorems and Spectral theory) from a Classical and 'Abstract' frame of reference.

Our library is missing a great number of back issues of journals that are relevant to my work. The most noticeable omissions are papers by yourself and papers by R. H. element.

While I do not want to 'impose on you I would greatly appreciate any reprints of papers that you might care to send me.

Sincerely

James T. Burnham

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY

April 11, 1968

Mr. Lowell J. Hansen
1103 W. Church, Apt. 5
Champaign, Illinois 61820

Dear Mr. Hansen:

The copies of my thesis are all gone since many years ago, but I have one copy left which I used to lend out to students with the understanding that it will be returned.

Some other papers dealing with harmonic measures are enclosed here. In Arkiv för Matematik (around 1945) you will find an article by Tord Hall which might be of interest to you.

With best wishes,

Yours sincerely,

Arne Beurling

ABcdu
Enclosures

1103 W. Church, Apt. 5
Champaign, Illinois 61820
April 1, 1968

Professor Arne Beurling
Institute for Advanced Study
Princeton, New Jersey 08540

Dear Professor Beurling,

In doing research toward the preparation of my dissertation,
I have made considerable use of your doctoral thesis, a copy of which
is in the University of Illinois library. I would therefore like to
acquire a copy for myself. My thesis advisor, Professor M. H. Heins,
suggested that I write to you. I would appreciate it very much if you
would tell me whether or not copies are still available, and, if so,
where I should write to order one.

I am also interested in any other work you might suggest in
which majorants are given for harmonic measures. Any assistance you
can give me will be highly appreciated.

Yours very truly,

Lowell J. Hansen

Lowell J. Hansen

Royal Swedish Academy of Sciences

Institut Mittag-Leffler
Djursholm

Styrelsen för Makarne Mittag-Lefflers Matematiska Stiftelse behagade samman-
träda i biblioteksvillan i Djursholm tisdagen den 23 januari 1968 kl. 15,30.

Ärenden:

1. Redogörelse för underhåll av Stiftelsens fastigheter.
2. Anhållan av skulptören, fru Greta Fahlcrantz-Lindberg, om anslag för
   bronsgjutning av Mittag-Lefflers byst.
3. Anslag för renovering av möbler i biblioteksvillan.
4. Anslag å kr. 5.000 för översyn av i bibliotekt befintlig icke-matematisk
   litteratur.
5. Gästföreläsningar och forskarutbyte.
6. Redogörelse för Acta Mathematicas redaktion och administration.
7. Arvode för Acta Mathematicas administration.
8. Stat för år 1968.
9. Diskussion av utsänt förslag till nya stadgar för Stiftelsen samt
   eventuell därav föranledd rekommendation.

<div align="right">Ordföranden</div>

Verkställande ledamoten har äran inbjuda Styrelsens ledamöter till middag
i hemmet kl. 19. Svar utbedes pr brew eller tel. 755 07 52.

Institut Mittag-Leffler
Djursholm

THE UNIVERSITY OF WISCONSIN
MADISON 53706

DEPARTMENT OF MATHEMATICS
213 VAN VLECK HALL

March 29, 1969

Dear Professor Beurling,

I have been reading your elegant paper "Un théorème sur les fonctions bornées...", Acta 1945, and would like to ask a simple question about your assertion there, that if φ is bounded and uniformly continuous on $(-\infty, \infty)$, and $\sigma(\varphi) = \{\lambda_1, ..., \lambda_m\}$, then $\varphi(t) = \sum_{\nu=1}^{m} A_\nu e^{i\lambda_\nu t}$. Could you refer me to a proof of this fact that uses ideas more or less intrinsic to those of your paper? I have worked out the equivalence of your spectrum $\sigma(\varphi)$ with the more usual one involving weak-$*$ closure, for uniformly continuous φ, and so can use known proofs extant in e.g. the book of Dunford and Schwartz to see the truth of the above assertion. But I am interested in it mainly in order to deduce some information on a problem in integral equations, for which the narrow topology is useful and weak-$*$ is not, and so I would like to be able to refer to a direct proof (i.e. one using only the narrow topology) of the above assertion, if possible.

I thank you, in advance, for any help you can give me on this problem!

Sincerely,

Daniel Shea

Princeton, April 3, 1969

Dear Mr. Shea:

The narrow topology served a specific purpose in my Acta article, but lacking sufficient information about your integral equation I do not know if it will be useful to you. According to my experience there is a topology more convenient than the weak*. It is defined in the space $C(R)$ of cont. bdd. functions on R by the fact that a fundamental system of neighborhoods of 0 is formed by the sets $\{\varphi ; \varphi(x) \in C(R), |\varphi(x)| < \delta(x), x \in R\}$ where $\delta(x)$ stands for any strictly pos. and cont. funct. tending to $+\infty$ at ∞, but arbitrary slowly.

The spectral synthesis theorem you wrote about can be given many different proof in the narrow topology. Let me first recall these results from the Acta paper:

$$\sigma(f) = 0 \implies f \equiv 0$$

2) $\sigma(f) = \{\lambda\} \implies f = c e^{i\lambda x}$

3) $g \in T'_f \implies T'_g \subset T'_f \implies \sigma(g) \subset \sigma(f)$

We also know that f can be uniformly approached by functions g of the form $g(x) = \int f(x-\xi) h(\xi) d\xi \in T'_f$ where $h \in L^1(-\infty, \infty)$ has a Fourier transform $\hat{h}(t)$ with compact support and with derivative $\hat{h}'(t)$ of bdd. variation. If supp. $\hat{h} \subset [a, b]$ then

$(1)\qquad h(z) \leq A \cdot \max\left\{ |e^{iaz}|, |e^{ibz}| \right\}$

Assume $\sigma(f) = \{\lambda_v\}_1^n$, $\lambda_1 < \lambda_2 < \cdots \lambda_{n-1} < \lambda_n$.

Write $\hat{h}(t) = \hat{h}_1(t) + \hat{h}_2(t)$. Assume $\lambda_{m-1} < a_1 < a_2 < \lambda_m$ and chose $\hat{h}_*(t) = \hat{h}(t)$ for $t \geq a_2$, $= 0$ for $t \leq a_1$, linear in $[a_1, a_2]$. Then $\hat{h}_1$ and $\hat{h}_2$ are Fourier transf. of h_1, h_2 satisfying

$$\left| h_1(z) \right| \leq \frac{A_1}{1+|z|^2} \max\left\{ |e^{iaz}|, |e^{ia_2 z}| \right\}$$

$$\left| h_2(z) \right| \leq \frac{A_2}{1+|z|^2} \max\left\{ |e^{ia_1 z}|, |e^{ibz}| \right\}$$

$$g = f * h = f * h_1 + f * h_2 = g_1 + g_2$$

where $\left| g_2(z) \right| \leq B_2 \max\left\{ |e^{ia_1 z}|, |e^{ibz}| \right\}$. $\qquad (1)$

By Phragmén-Lindelöf it follows that each $\varphi \in T'_{g_2}$ satisfies (1) with $B_2 = \|\varphi\|$. Since $\sigma(g_2) \subset \{\lambda_v\}_1^n$

Because of this inequality and 3) it
follows that $\sigma(g_2) \subset \sigma(f) \cap [a_1, b] = \{\lambda_n\}$,
and thus by 2) $g_2(x) = c_n e^{i\lambda_n x}$. Similarly
$\sigma(g_1) \subset \sigma(f) \cap [a, a_1] = \{\lambda_\nu\}_1^{n-1}$. Iterating
this procedure we find
$$g(z) = \sum_1^n c_\nu e^{i\lambda_\nu x}.$$

As a uniform limit of such functions
f or has the same form.

Carleson, Lennart

April 15, 1969

Käre Lennart:

Tack för Ditt brev med förslagen om jag
skulle vilja komma till Stiftelsen någon vecka
i September. Eftersom vi bli lo att rätt
kraftigt researchlag behöva Du aldrig tänka på
dylika bekymmer. Vi ha ledstalom fått inställt
ett "sabbatical year" låa och jag hade tänkt att
antingen under 1971 eller 72 lämna för en ter-
termin ord stulla i så fall gärna stanna
någon del därav i Sverige och ge några föreläs-
ningar. En visit i September + styrelse-
sammanträde fresteller mig ej så tilltalande, så vitt
ej mina närvaro skulle vara nödvändig för ett
eller annat beslut.

Hoppas att Acke trots den goda tillgången
på manuskript har plats för en avhandling
som jag skall avsluta i sommar. — Bland de
avlagda manuskripten är det ett av Jaenisch
som inga mig fördröjer trots att jag ej vet
mer om innehållet än vad titeln anger. Vid
funk. theori conferencen Bombay 1960 gav jag
ett föredrag om quasiconf. avb. men mina rena
(eller rättare sagt ovana) trogen lämnad, jag
inget manuskript. Idén var helt enkelt att
med liksid.g trangler triangeln omsluta som
skall avbildas (i löpa dims. likvärdiga behandlas
rättet). Om $k < k_0$ blir orienteringen av
punkterna ej förändrad och den affina avbildning
av den ursprungliga triangeln på triangeln med
hörnpunkterna $\varphi(xv)$, $v = 1, 2, 3$, ger en piecewise
linan avb. som person.skap i alla skener ock
är qv.c. Eftersom nu varje kv.c. φ kan
skrivas $\varphi = \varphi_1 \circ \varphi_2 \cdots \circ \varphi_n$ med
$$k(\varphi_v) \leq \sqrt[n]{k(\varphi)}$$, av varje φ kan approx. på
ovanstående sätt så följer omedelbart den önskade
slutsatsen om styckevis affin avb. inom polygoner.

Jag har inget att invända gentemot manuskriptets publicering; ty även om det ej skulle innehålla mer än en kompilation av två kända ting, voro dessa, nämligen triangulering etc, kända för mig. När man är redaktionsmedlem i en tidskrift är det speciellt olustigt att ej bli citerad på rätt ställe, men underlåtenheten kan frafalla då Eliot nämligen sanktionerad.

Jag skulle därför vara tacksam om Du ville framföra till författaren att trianguleringsmetoden är känd, i och han ej gjort rätt referens.

Med bästa hälsningar till Dig och Brutte från

Arne

Även om avhandlingen ej innehålla något annat än en kompilation av två kända ting så få lm jag vigel att önska genlemt dess publicering, såvida författaren ger korrekt reference vis-à-vis triangulerings metoden.

Jag finner det olustligt ~~när~~ när

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY 08540

SCHOOL OF MATHEMATICS

Sept. 13, 1969

Dear Professor Maberger:

This summer I received a
letter from an English mathe-
matician, asking me to send
him a proof of the theorem
I showed you when you were
a member here. Since the result
now seems to be known I think
I should publish the proof. I have
no copy of the notes I gave you

and I would therefore
be thankful if you send
me a Xerox copy of them.
That would save me some
time.

With best wishes

Yours sincerely,

Arne Beurling

EMORY UNIVERSITY
ATLANTA, GEORGIA 30322

DEPARTMENT OF MATHEMATICS

September 20, 1969

Dear Professor Beurling:

Enclosed are the notes you gave me last year when I was a member there. I have retained a Xerox copy.

I am very happy concerning your plans to publish your fine result. I have been writing a paper on semi-groups of linear transformations which make use of your theorem. I planned to include a proof of your theorem but am pleased that this is not required now. I will be most grateful if you will let me know where your result will be published.

One of my theorems (which follows easily from yours) is this: If T is a strongly continuous semi-group (on $[0,\infty)$) of bounded linear transformations and $\lim\sup_{x \to 0} |T(x) - I| < 2$, then $A T(x)$ is bounded for $x > 0$ where A is the infinitesimal generator of T.

Other results in the paper follow from what I consider to be the main result in my study of quasi-analyticity (Lemma A in the enclosed 1968 JLMS paper).

I plan to send you a copy of my manuscript when it is finished. I include here copies of my published work on quasi-analyticity.

With best regards,

John Neuberger

I would appreciate having a Xerox copy of your manuscript when it is available.

Lumer, Günter

NATIONAL SCIENCE FOUNDATION

Proposal Rating Sheet

Reviewer   Professor Arne Beurling

Proposal No.: P022727
Investigator: Lumer/Moore
Institution: U. of Wash.
Please return to: I
If possible by: 5/28/70

Lumer's program concerns abstract Hardy spaces with applications to rational approximation problems and to analytic functions of several complex variables in starshaped regions. Perturbation problems and contraction semi-groups are among the suggested topics.

Comments: Lumer is a highly qualified researcher with distinguished achievement to his credit within the fields of the submitted proposal. His program is rich in interesting and promising problems.

Moore's proposal concerns mainly operator theory and semi-groups.

Comments: The suggested problems are sound and make a worthwhile program, even though it is less interesting than Lumer's.

Overall Rating   May 21, 1970

x Excellent
x Very Good +

NATIONAL SCIENCE FOUNDATION

Proposal Rating Sheet

Reviewer   Professor Arne Beurling

Proposal No.:   P1P0944
Investigator: deBranges

Institution: Purdue

Comments

The proposal starts with a review of known facts about modular forms and the corresponding zeta functions. The quite pretentious goal is to prove that these Dirichlet series have no zeros in the half plane $\sigma > \frac{1}{2}$, and to attack from that position the Riemann hypothesis itself. The integrity of the proposal rests mainly on a claim by its author that he last year proved a long outstanding conjecture of Ramanujan (cf. #35 of the bibliography). I suggest that an expert in this field, like Professor Langlands, should be consulted on the completeness of the proof before any decision is made on the proposal.

1/19/71

THE INSTITUTE FOR ADVANCED STUDY

PRINCETON, NEW JERSEY 08540

February 10, 1971

Dr. Michael Taylor
Department of Mathematics
University of Michigan
Ann Arbor, Michigan 48104

Dear Dr. Taylor:

Thanks for sending me your manuscript "Vector valued analytic functions...". As you are well aware, problems of the kind you have considered appear frequently in the theory of partial differential operators and are usually handled by means of Baire's category theorem. Whether this or any further developed theorem is used in the proof is hardly significant. Hörmander's book On Partial Differential Operators (Springer, 1963) contains on page 112 one of the standard applications of Baire's theorem, the proof runs only 12 lines long.

Under these circumstances, I feel that your paper in an abbreviated version would be much more appropriate for one of the journals which publishes short notices.

Sincerely yours,

Arne Beurling

ABcdu