

**International two-day Meeting
on Complex, Harmonic, and Functional Analysis
and Applications**

Thessaloniki, December 12 and 13, 2003

Participant information and Program

**Καλωσορίσατε
στην Θεσσαλονίκη**

General Information

Place: The campus of Aristotle University of Thessaloniki is located in the center of the city. To arrive from the airport one can use a taxi (\sim 8-10 euros one way) or a much cheaper airport bus. Participants are scheduled to stay in the University Guest House, address: Megalou Alexandrou 29, or at ABC Hotel just across the Campus.

The meeting will be held in rooms M1, M2 and M3 of the third floor of the Sciences Building, in the premises of Mathematics Department. The plenary talks are in M2. All other talks are scheduled in two parallel sessions in M1 and M2 (see program). Coffee, snacks and an informal lunch of Friday and Saturday will be available in room M3. Overhead projectors as well as blackboard are available in rooms M1 and M2. All talks will be in English.

Technical Reports: Participants who wish, may submit a written version of their talk to be published as a Technical Report of the Mathematics Department. Survey talks are particularly suitable for this. The Organizing Committee will act as an informal editorial board, but as this is a prepublication, the responsibility remains with the author. All participants are encouraged to submit manuscripts. Please send manuscripts to: Organizing Committee, Division of Mathematical Analysis, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece. The deadline for submission is January 31, 2004.

Activities: Two dinners are scheduled on Friday and Saturday for the participants. In addition there will be an informal light lunch Friday and Saturday noon at room M3. After the end of the talks on Saturday there will be an sight-seeing tour by bus, combined with Saturday's dinner. More information on the above will be available at the meeting.

Additional information and possible last minute changes can be found in the web-page: <http://users.auth.gr/~betsakos/conference.htm>

Sponsors: Financial support for this meeting has been obtained from: Division of Mathematical Analysis, The Graduate Program of the Department of Mathematics, The Municipality of the city of Thessaloniki, The Department of Mathematics, The Rector of Aristotle University of Thessaloniki, The Research Committee of Aristotle University of Thessaloniki and Ziti publications.

The Organizing Committee

I. Antoniou, D. Betsakos, Ch. Kariofillis, Ch. Konstandilaki, M. Marias, A. Siskakis.

Program

Friday December 12

09:00-09:30 ROOM M2, Opening ceremony

ROOM M2, Chairperson: N. Mandouvalos

09:30-10:20 **A. Carbery**,
*Some aspects of harmonic analysis on vector spaces
over finite fields*

10:30-11:20 **D. Girela**,
Some questions on Bloch functions

Coffee break, Room M3

ROOM M1, Chairperson: M. Kolountzakis

12:00-12:25 **M. Marias**,
Singular Integrals on Riemannian Manifolds

12:30-12:55 **N. Mandouvalos**,
*Inner product formula and Maass-Selberg relations
for Kleinian groups*

13:00-13:25 **G. Barbatis**,
Improved Hardy Inequalities

ROOM M2, Chairperson: K. Daskaloyannis

12:00-12:25 **Y. Melnikov**,
*Spectral analysis of a class of integral-difference operators.
Example: collision operators*

12:30-12:55 **I. Gasparis**,
A criterion for embedding c_0 in a Banach space

13:00-13:25 **M. Petrakis**,
Spaces of functions that do not contain l^1

Light lunch, Room M3

ROOM M1, Chairperson: D. Betsakos

15:00-15:25 **P. Galanopoulos**,
Hausdorff matrices on spaces of analytic functions

15:30-15:55 **N. Samaris**,
On the Krzyz conjecture

ROOM M2, Chairperson: I. Gasparis

15:00-15:25 **Ch. Konstadillaki**,
Smooth universal Taylor series

15:30-15:55 **A. Rodriguez-Martinez** ,
Properties of the Composition Volterra Operator

ROOM M2, Chairperson: I. Antoniou

16:10-17:00 **S. Shkarin**,
*Entire universal functions and associated
hypercyclic operators*

Coffee break, Room M3

ROOM M1, Chairperson: G. Barbatis

17:30-17:55 **S. Stevic**,
Weighted integrals of holomorphic and harmonic functions

18:00-18:25 **D. Betsakos**,
An isoperimetric-type inequality for Riesz capacities

18:30-18:55 **Th. Tselepidis**,
*Estimates of the derivatives of the Heat kernel
on hyperbolic spaces*

ROOM M2, Chairperson: D. Kravvaritis

17:30-17:55 **C. Daskaloyannis**,
*Calculation of operator spectra by deformed oscillator
techniques*

18:00-18:25 **Y. Melnikov**,
*Representation of the derivatives and products of the
delta function in Hilbert space*

18:30-18:55 **N. Atreas**,
Local sampling for regular wavelets and Gabor expansions

20:30 - ∞ Meeting Dinner

Saturday December 13

ROOM M2, Chairperson: M. Papadimitrakis

- 09:00-9:50 **D. Vukotic**,
*Integrability of derivatives, geometry of domains,
and growth of analytic functions in some classical spaces*
- 10:00-10:50 **H. Hedenmalm**,
Mean value surfaces with prescribed curvature.

Coffee break, Room M3

ROOM M1, Chairperson: M. Marias

- 11:20-11:45 **M. Kolountzakis**,
Distance sets corresponding to convex bodies
- 11:50-12:15 **A. Bisbas**,
Normal numbers from infinite convolution measures
- 12:20-12:45 **E. Tychopoulos**,
Lorentz spaces and heat equation

ROOM M2, Chairperson: E. Katsoprinakis

- 11:20-11:45 **J. Pelaez**,
Blaschke products with zeros in a Stolz angle
- 11:50-12:15 **M. Papadimitrakis**,
*A property of the Fourier series of functions
in the space H^∞*
- 12:20-12:45 **E. Diamantopoulos**,
The Hilbert matrix on spaces of analytic functions

Light lunch, Room M3

ROOM M1, Chairperson: M. Petrakis

- 13:40-14:05 **Th. Mitsis**,
On the relation between A_∞ and BMO
- 14:10-14:35 **G. Majchrowska**,
*Completeness in $L^p(\mathbb{R})$ spaces of discrete translates
and related questions*
- 14:40-15:05 **I. Stratis**,
*Electromagnetic fields in bianisotropic media:
a time-domain analysis*

ROOM M2, Chairperson: Ch. Konstadillaki

- 13:40-14:05 **V. Vlachou**,
Universal Overconvergence and Ostrowski gaps
- 14:10-14:35 **E. Katsoprinakis**,
Spectra of normal operators and the geometry of polynomials
- 14:40-15:05 **A. Montes-Rodriguez**,
Cyclic properties of the Volterra Operator

Sight-seeing, including dinner

List of participants

- I. Antoniou, A.U.Th.
N. Atreas, Technological Institute of West Macedonia
A. Arvanitidis, A.U.Th.
G. Barbatis, University of Ioannina
A. Baharoglou, A.U.Th.
D. Betsakos, A.U.Th.
A. Bisbas, Technological Institute of West Macedonia
A. Carbery, University of Edinburgh
N. Danikas, A.U.Th.
C. Daskaloyannis, A.U.Th.
D. Dassios, A.U.Th.
E. Diamantopoulos, A.U.Th.
G. Eleftherakis, University of Athens
N. Floropoulos, A.U.Th.
P. Galanopoulos, University of Crete
G. Gasparis, University of Crete
G. Georganopoulos, A.U.Th.
D. Girela, University of Malaga
H. Hedenmalm, Royal Institute of Technology, Stockholm
C. Kariofillis, A.U.Th.
E. Katsoprinakis, University of Crete
M. Kolountzakis, University of Crete
C. Konstandillaki, A.U.Th.
A. Konstandillakis, A.U.Th.
D. Kravvaritis, National Technical University of Athens
Y. Kyrezi, University of Crete
Th. Kyventidis, A.U.Th.

V. Lashos, A.U.Th.
G. Majchrowska, Polish Academy of Sciences
N. Mandouvalos, A.U.Th.
Th. Maris, A.U.Th.
M. Marias, A.U.Th.
Th. Matsoukas, A.U.Th.
Y. Melnikov, International Solvay Institutes for Physics and Chemistry
A. Montes-Rodriguez, Universidad de Sevilla
Th. Mitsis, University of Crete
Ch. Mouratidis, Technological Institute of West Macedonia
S. Myronidis, A.U.Th.
J. A. Pelaez, University of Malaga
M. Papadimitrakis, University of Crete
Sp. Papadopoulos, A.U.Th.
St. Papadopoulos, Athens
S. Papadopoulou, University of Crete
M. Petrakis, Technical University of Crete
E. Pouleas, A.U.Th.
A. Rodriguez-Martinez, Polish Academy of Sciences
N. Samaris, University of Patras
N. Satsli, A.U.Th.
S. Shkarin, Lomonosov Moscow State University
A. Siskakis, A.U.Th.
G. Stamatiou, A.U.Th.
N. Stephanidis, A.U.Th.
S. Stevic, University of Belgrade
I. Stratis, University of Athens
G. Stylogianis, A.U.Th.
E. Telli, A.U.Th.
T. Trapezanlidis, A.U.Th.
Th. Tselepidis, A.U.Th.
E. Tychopoulos, National Technical University of Athens
V. Vlachou, University of Crete
D. Vukotic, Universidad Autonoma de Madrid