

The Danish Mathematical Society



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DMF's Annual Meeting 2004

2nd November, 2004
 Department of Mathematical Sciences, Auditorium F
 Ny Munkegade, Bld. 530
 8000 Århus C

Registration

Registration is required. **Deadline: Monday 25th October, 2004.**
 Please pay on the day.

Programme

Department of Mathematical Sciences, Auditorium F

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| 12:00- | <i>Lunch</i> |
| 13:00 | At the mathematical canteen, Ny Munkegade, Bld. 530
Registration is needed. |
| 13:00- | <i>Welcome</i> by the chairman of the Danish Mathematical Society, |
| 13:15 | Johan P. Hansen. |
| 13:15- | <i>Matematik i det nye gymnasium</i> (this part will be conducted in |
| 14:30 | Danish)
- Fagkonsulent i matematik, Bjørn Grøn
Oplæg: word, ps
- Fm. for gymnasierådet, rektor Ove Poulsen
Oplæg: html
- Dekan, Erik M. Schmidt
- Medlem af læseplansgruppen for HHX, Tage Bai Andersen. |
| 14:30- | Professor and Abel Prize Winner 2004, M. Atiyah. |
| 15:15 | Title: <i>The Interaction of Geometry and Physics: an Overview</i> |
| 15:15- | Coffee break. |
| 15:30 | |
| 15:30- | Professor G. Grubb , Copenhagen. |
| 16:15 | Title: <i>On the Atiyah-Patodi-Singer problem</i> |

Abstract: In 1975, Atiyah, Patodi and Singer initiated the study of the index of spectral boundary problems (defined by pseudodifferential projections) for first-order elliptic differential operators of Dirac type on compact manifolds with boundary, introducing in particular a nonlocal invariant known as the eta invariant. This has led to a wealth of further studies and extensions. We shall try to give an overview of some of the recent progress, mainly from an analysis point of view.

16:15-
17:00

Professor B. Ørsted, University of Aarhus.

Title: *Geometry of the Maslov index*

Abstract: The Maslov index plays a key role in connection with the geometric asymptotics of solutions to partial differential equations. It also appears naturally in the representation theory of the symplectic group, and in gluing formulas for certain elliptic boundary value problems. In this lecture we shall give some new properties of the Maslov index, and at the same time generalize it, in both finite and infinite dimension; in particular we relate it to the theory of bounded cohomology of groups.

18:00

Dinner

Registration is needed

Poster in pdf format.

Danish Mathematical Society
Chairman Johan P. Hansen
matjph@imf.au.dk

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