Vorträge im FS Differentialgeometrie

ZEIT:
30.11.2009 - 14.12.2009

ORT:
University of Potsdam,
Am Neuen Palais 10,
House 8, Room 0.58

PROGRAMM:

30.11.2009

15:15 **Prof. Andreas Juhl**

Conformally covariant differential operators I
In a series of 3 lectures we will discuss recent developments around conformally invariant differential operators and Branson's Q-curvature. In the first lecture, we plan to cover the following topics:

* Conformal geometry and the ambient metric construction

* Yamabe and Paneitz operator and their role in geometric analysis

* GJMS-operators and their relation to scattering theory

7.12.2009

15:15 **Prof. Andreas Juhl**

Conformally covariant differential operators II
Second lecture. We will cover the following topics:

* Branson's Q-curvature: basic properties, its role in geometric analysis

Kontakt:
Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de

* Q-curvature and scattering theory

* holographic formula and its connection with AdS/CFT

14.12.2009

15:15 **Prof. Andreas Juhl**

Conformally covariant differential operators III
Third lecture in this series. We will cover the following topics:

* Conformally covariant differential operators associated to submanifolds

* Residue families: definition and basic properties

* Recursive structure of GJMS-operators and Q-curvatures

Kontakt:
Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de