Vorträge im FS Differentialgeometrie

ZEIT:
29.11.2009 - 13.12.2009

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

PROGRAMM:

29.11.2009

14:15 **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

6.12.2009

14:15 **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

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* Q-curvature and scattering theory

* holographic formula and its connection with AdS/CFT

13.12.2009

14:15 **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

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