

Prof. Bent Ørsted

Rigidity of conformal functionals on spheres

ZEIT:

10.2.2010, 14:15 Uhr - 15:15 Uhr

ORT:

Humboldt-Universität zu Berlin, Institut für Mathematik
Rudower Chaussee 25
12489 Berlin
Room I.410

The regularized zeta function determinant of an elliptic operator on a compact manifold is an interesting spectral invariant, which has been studied in connection with both conformal geometry and string theory. In this lecture we consider this and other functionals as functions on the space of all smooth metrics and give some results on the nature of critical points for the case of the standard sphere. This is joint work with Niels Martin Møller.

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