

中央研究院數學研究所

Sinica-NCTS/TPE Geometry Seminar

主講人：Prof. Raphael Ponge (University of Tokyo)

講題：On the logarithmic singularities of the Green functions of the conformal powers of the Laplacian

時間：2011年4月29日（星期五）16:00~17:00

地點：中研院數學所 617 研討室(台大校區)
Seminar Room 617, Institute of Mathematics (NTU Campus)

Organizer：Prof. Jih-Hsin Cheng (Academia Sinica)

茶會：演講前三十分鐘於 6 樓交誼區

Abstract:

Green functions play an important role in conformal geometry. In this talk, we shall explain how to compute explicitly the logarithmic singularities of the Green kernels of the conformal powers of the Laplacian, including the Yamabe and Paneitz operators. The results are formulated in terms of explicit conformal invariants arising from the ambient metric of Fefferman-Graham. As applications we obtain a new characterization of locally conformally flat manifolds and a spectral-theoretic characterization of the conformal class of the round sphere.

***歡迎參加

敬請張貼***

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2011.04.11