



复旦大学数学科学学院  
**数学综合报告会**

报告题目: **The hypoelliptic Laplacian, analytic torsion and closed geodesics**

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报告时间: 2016-08-06 星期六 10:00-11:00

报告地点: 光华东主楼 2001

摘要: The hypoelliptic Laplacian, introduced by Bismut, is a family of second order differential hypoelliptic operators, which interpolates in a proper sense between the classical elliptic Laplacian and the derivation along the generator of the geodesic flow. In this talk, we will give a short introduction to the hypoelliptic Laplacian. We will describe its relation with the Fried conjecture which claims that the analytic torsion, which is an alternating product of regularized determinants of the Hodge Laplacians, equals the zero value of the dynamical zeta function.

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