

概率论系列报告

报告题目 (Title): A note on Constantin and Iyer's
representation formula for the
Navier-Stokes equations

报告人 (Speaker): 罗德军 副研究员 中国科学院数学院

时间 (Time): 9月28日(周一)下午 3:00-4:00

地点 (Venue): 北京大学理科一号楼 1479

摘要 (Abstract): The purpose of this note is to establish a probabilistic representation formula for Navier-Stokes equations on a compact Riemannian manifold. To this end, we first give a geometric interpretation of Constantin and Iyer's representation formula for the Navier-Stokes equation, then extend it to a compact Riemannian manifold. We shall use Elworthy-Le Jan-Li's idea to decompose de Rham-Hodge Laplacian operator on a manifold as a sum of the square of vector fields. This is a joint work with Professor Shizan Fang.

欢迎参加