

「熊本大学応用解析セミナー」のお知らせ

Mathematics and Applied Analysis Seminar in Kumamoto

中国から Xiangdong Li 氏 (中国科学院) が来られるのを機会に以下のように講演会を行います. ご興味のおありの方は是非ご参加ください.

日時 2017年3月29日(水) 16:10 – 17:40 (休憩10分)

2017, March 29, Wednesday, 16:10–17:40 (rest time 10 min)

場所 理学部棟3号館4階D401

3rd Building of Faculty of Science, 4th floor, D401

(通常の間所とは異なります)

講演者 Xiangdong Li 氏 (中国科学院)

(Speaker) Professor Xiandong Li (CAS AMSS)

講演題目 *(Title)* **W -entropy formulas on super Ricci flows and Langevin deformation on Wasserstein space over Riemannian manifolds**

講演内容 *(Abstract)* In this talk, we give an overview of our recent works in collaboration with Songzi Li on the study of the W -entropy for the heat equation of the Witten Laplacian on Riemannian manifolds with various curvature-dimension conditions and super-Ricci flows. Moreover, we introduce the Langevin deformation on Wasserstein space over Riemannian manifolds and extend the W -entropy formula to the Langevin flow. Our result recaptures an important result due to Lott and Villani on the displacement convexity of the Boltzmann-Shannon entropy on Riemannian manifolds with non-negative Ricci curvature.

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