Workshop

Geometric analysis on manifolds, fractals and metric spaces

Date: March 1-March 3, 2022.

Place: Yamagata University via Zoom

Registration: <u>https://forms.office.com/r/BBXADJhwZY</u>

Program

All times are given in European time zone CET. Time in China: CST= CET+7 Time in Japan: JST=CET+8

March 1 (Tuesday)

9:00-9:50 Qingsong Gu (Nanjing University, China) *Superlinear elliptic inequalities on weighted graphs*

10:00-10:50

Philipp Suerig (University of Bielefeld, Germany) Heat kernel estimates on manifolds with ends

11:00-11:50

Jean-Philippe Anker (University of Orleans, France) Asymptotic behavior of solutions to the heat equation on noncompact symmetric spaces

11:50- Free Discussion

March 2 (Wednesday)

9:00-9:50

Xiaoxiang Chai (Korea Institute for Advanced Study (KIAS)) Mixed boundary value problems in Gromov dihedral rigidity

10:00-10:50

Atsushi Inoue (Hokkaido University, Japan) Essential self-adjointness of the Laplacian of a rotationally symmetric Riemannian manifold

11:00-11:50

Simon Nowak (University of Bielefeld, Germany) Sobolev regularity for nonlocal equations with VMO coefficients

11:50- Free discussion

March 3 (Thursday)

9:00-9:50

Masayuki Aino (RIKEN, Japan) Convergence of Laplacian Eigenmaps and its rate for submanifolds not necessarily smooth

10:00-10:50

Huabin Ge (Renmin University of China, China) On Thurston's "geometric ideal triangulation" conjecture

11:00-11:50

Leandro Pessoa (Universidade Federal do Piauí-UFPI, Brazil, and University of Bielefeld, Germany) The intersection problem for 1-surfaces of the hyperbolic 3-space

11:50- Free discussion

Organizers

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