



部分多様体の幾何解析

— Extrinsic Geometric Analysis —

Date

June 9 (Mon) PM – June 11 (Wed) AM, 2025

Venue (In-person only)

Room 111, Research Institute for Mathematical Sciences (RIMS), Kyoto University

June 9 (Mon)

- 13:00 – 14:00 Shin-ichi Ohta (Osaka University)
Splitting theorems for weighted Finsler spacetimes
- 14:20 – 15:20 Tatsuya Miura (Kyoto University)
A new energy method for shortening infinite-length curves
- 15:40 – 16:40 Xiaoli Han (Tsinghua University)
The deformed Hermitian Yang-Mills equation

June 10 (Tue)

- 9:30 – 10:30 Yuanlin Peng (Tohoku University)
Applications of entire Green functions on $\text{RCD}(0, N)$ spaces
- 10:50 – 11:50 Shota Hamanaka (Osaka University)
Applications of μ -bubbles to studying GRS
- Lunch Time —
- 13:20 – 14:20 Chao Xia (Xiamen University)
Various Heintze-Karcher-type inequalities and applications
- 14:40 – 15:40 Chao Li (New York University)
The stable Bernstein theorem for minimal hypersurfaces
- 16:00 – 17:00 Giovanni Catino (Politecnico di Milano)
Stable minimal hypersurfaces via conformal method and applications

June 11 (Wed)

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| 9:00 – 10:00 | Shintaro Akamine (Nihon University)
Bernstein type theorem for constant mean curvature surfaces in isotropic 3-space |
| 10:20 – 11:20 | Shin Nayatani (Nagoya University)
First-eigenvalue maximization and inflation of maps |
| 11:40 – 12:40 | Reiko Miyaoka (Tohoku University)
Chern's conjecture in the Dupin case |

Organizers

- Keita Kunikawa (國川 慶太, Tokushima University)
- Yohei Sakurai (櫻井 陽平, Saitama University)