Workshop on Variational Methods and Functional Inequalities (OCAMI)

RIMS Research Project

organizers: Futoshi Takahashi (Osaka Metropolitan University)
Michinori Ishiwata (Osaka University)

Date : 2023, February, 13, 13:25 – February, 15, 12:10

Venue : Science Building E 408
Department of Mathematics, Osaka Metropolitan University
3-3-138, Sugimoto-cho, Osaka-si, Osaka

13, February

13:25∼13:30 Opening

13:30∼14:30 Bernhard Ruf (University of Milan)
Bifurcation into spectral gaps for nonlinear Choquard equations

14:40∼15:40 Kazunaga Tanaka (Waseda University)
Semi-classical states for nonlinear Choquard equations: Concentration around local maxima or saddle points in degenerate setting

15:50∼16:50 Satoshi Masaki (Osaka University)
On standing-wave solutions to the standard forms of a class of NLS systems

14, February

10:00∼11:00 Luca Martinazzi (University of Rome “La Sapienza”)
A degree theory for the Moser-Trudinger embedding

11:10∼12:10 Neal Bez (Saitama University)
Stability of the log-Sobolev and hypercontractivity inequalities

13:30∼14:30 Gabriele Mancini (University of Bari)

Local and non-local singular Liouville-type equations in Euclidean spaces

14:40∼15:40 Kazuhiro Kurata (Tokyo Metropolitan University)

On some variational problem related to a reaction-diffusion system with mass conservation on a metric graph

15:50∼16:50 Megumi Sano (Hiroshima University)

Sobolev type inequalities with logarithmic weights and its application to an eigenvalue problem involving the critical Hardy potential

15, February

10:00∼11:00 Shinji Adachi (Shizuoka University)

On the existence and asymptotic behavior of positive solutions for a class of locally superlinear elliptic equation

11:10∼12:10 Shinichiro Matsuo (Nagoya University)

The prescribed scalar curvature problem for metrics with unit total volume