Summer School on Variational Problems and Functional Inequalities (at OCAMI)

RIMS Research Project

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

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Date :   2022, September, 21, 9:50 – September, 22, 17:30

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

21, September

9:50∼10:00 Opening

10:00∼11:00 Bernhard Ruf （Universitá di Milano）
Concentration on manifolds for solutions of polynomial elliptic equations on an annulus (I)

11:30∼12:30 Luca Martinazzi （Universitá di Roma "La Sapienza"）
Variational methods for the Moser-Trudinger embedding (I)

14:00∼14:45 Shoichi Hasegawa (Waseda University, PD)
Separation structure of radial solutions to the Lane-Emden equation on non-compact Riemannian manifolds

15:00∼15:45 Ikkei Shimizu (Osaka University, Researcher)
Profile decomposition for the Schrödinger propagator on star graphs and its application to nonlinear problems

16:00∼16:45 Nobuhito Miyake (The University of Tokyo, PD)
Effect of decay rates of initial data on the sign of solutions to Cauchy problems of polyharmonic heat equations

16:45∼17:30 discussion

22, September

10:00∼11:00 Bernhard Ruf （Universitä di Milano）
          Concentration on manifolds for solutions of polynomial elliptic equations on an annulus (II)

11:30∼12:30 Luca Martinazzi （Universitá di Roma "La Sapienza"）
          Variational methods for the Moser-Trudinger embedding (II)

14:00∼14:45 Takeshi Suguro (RIMS, Project Fellow)
          Shannon's inequality for a generalized entropy and its application

15:00∼15:45 Haoyu Li (Osaka University, Researcher)
          Nodal Solutions to Coupled Schrödinger Systems

16:00∼16:45 Naoki Hamamoto (Osaka Metropolitan University, PD)
          Best constants in some CKN type inequalities for test vector fields restricted by differential constraint

16:45∼17:30 discussion