Variational analysis on critical problems of nonlinear partial differential equations

Period: From February 20th (Thursday) to 21st (Friday) in 2020

Place: Lecture Room F415, Fuculty of Science, Sugimoto campus, Osaka City University

Program

February 20th

14 : 00 — 14 : 45   Luca Martinazzi (University of Padova)

Topological and variational methods for the Moser-Trudinger equation

14 : 55 — 15 : 40   Michinori Ishiwata (Osaka University)

On the profile decomposition of a volume functional

16 : 00 — 16 : 45   Tatsuya Watanabe (Kyoto Sangyo University)

Convex properties of positive solutions for a class of quasi-linear elliptic problems

16 : 55 — 17 : 40   Yuta Ishii (Tokyo Metropolitan University)

The effect of heterogeneity on one-peak stationary solutions to the Schnakenberg model

February 21st

10 : 00 — 10 : 45   Masataka Shibata (Tokyo Institute of Technology)

Asymptotic property of ground states for a class of quasilinear Schrdinger equations with H^1-critical growth

10 : 55 — 11 : 40   Mitsuru Shibayama (Kyoto University)

Variational construction of orbits realizing symbolic sequences in the planar Sitnikov problem

(Lunch)

14:00 — 14:45   Gabriele Mancini (Sapienza University of Rome)
Strongly perturbed Moser-Trudinger functionals and their critical points in dimension two.

14:55 — 15:40   Masato Hashizume (Ehime University)
Effect of compact term on maximization problem associated with Trudinger-Moser inequality

16:00 — 16:45   Yohei Toyota (National Institute of Technology, Nara College)
The behavior of blow-up solutions for mean field equations with probability measure

16:55 — 17:40   Norisuke Ioku (Tohoku University)
Solvability of a semilinear heat equation via a quasi scale invariance

(Closing)

Organizers:
Daisuke Naimen (Muroran Institute of Technology)
Futoshi Takahashi (Osaka City university)