

Workshop
**Critical Exponent and Nonlinear Partial Differential Equations
2023**

Nakao Hayashi (Tohoku University)
Keiichi Kato (Tokyo University of Science)
Takayoshi Ogawa (Tohoku University)
Kentaro Fujie (Tohoku University)

Date: 24–25 March 2023

Venue: Room No. 832, Buildings 8, Kagurazaka Campus, Tokyo University of Science

Location: 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan

The workshop is held in person as well as online.

Registration: <https://forms.gle/ddtLxfMdPg6DiEbj9>

Program

March 24 (Fri)

- 13:30-14:20 Ryo Muramatsu (Tokyo University of Science)
「磁場中のシュレーディンガー方程式の解のモジュレーション空間におけるノルム評価」
- 14:40-15:30 Hiroyuki Hirayama (Miyazaki University)
「Large time behavior and optimal decay estimate for solutions to the generalized KP-Burgers equation」
- 15:50-16:40 Toshiyuki Suzuki (Kanagawa University)
「Strichartz estimates for Schrödinger equations with singular electromagnetic potentials of critical decays」
- 17:00-19:00 Discussion

March 25 (Sat)

- 10:40-11:30 Takeyuki Nagasawa (Saitama University)
「The Möbius energy for knots as a limit of that for links」
- 11:50-12:40 Li Haoguang (中南民族大/Tohoku University)
「Analytic Gelfand-Shilov smoothing effect of the homogeneous Landau equation with hard potential」
- 14:00-14:50 Kota Uriya (Okayama University of Science)
「Asymptotic behavior of the solution to a system of cubic nonlinear Schrödinger equations in one dimension」
- 15:10-16:00 Kazuhiro Kurata (Tokyo Metropolitan University)
「On some variational problem related to a reaction-diffusion system with mass conservation on a metric graph」
- 16:20-18:00 Discussion

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