

**2017 Symposium on
Spectral and Scattering Theory in Matsumoto**

Date: January 7-9, 2017

**Venue: Lecture Room 1, Faculty of Science,
Shinshu university (Matsumoto campus)**

スペクトル・散乱 松本シンポジウム

日時: 2017年1月7日から9日

場所: 信州大学理学部 (松本キャンパス) 講義棟第一講義室

Jan. 7 (Sat.)

10:00–10:50: Yukihide Tadano (University of Tokyo)

Long-range scattering for discrete Schrödinger operators

11:10–12:00: Yutaka Terasawa (Nagoya University)

A survey on Kato's square root problem and related topics I

13:30–14:20: Yousuke Kubota (University of Tokyo)

An operator algebraic approach to topological phases I

14:40–15:30: Kouta Usui (Hokkaido University)

Quantum mechanics of non-abelian gauge theories and
canonical commutation relations

非可換ゲージの量子力学と正準交換関係

16:00–16:50: Evgeny Korotyaev (Saint-Petersburg State University)

Estimates for Laplacians and Schrödinger operators on the lattice

17:10–18:00: Yoshihisa Miyanishi (Osaka University)

The $H = xp$ model and its applications

Jan. 8 (Sun.)

10:00–10:50: Toru Fuda (Hokkaido University)

Localization of quantum walks and Feshbach map

11:10–12:00: Yutaka Terasawa (Nagoya University)

A survey on Kato's square root problem and related topics II

13:30–14:20: Yousuke Kubota (University of Tokyo)

An operator algebraic approach to topological phases II

14:40–15:30: Keita Mikami (University of Tokyo)

Geometric Scattering for Schrödinger Operators with Asymptotically
Homogeneous Potentials of Order Zero

16:00–16:50: Yukimi Goto (University of Tokyo)

Absence of the Ground State for Bosonic Coulomb Systems with the
Critical Charge

Jan. 9 (Mon.)

10:00–10:50: Masaki Kawamoto (Kobe University)

Scattering in electromagnetic fields
電磁場中での散乱

11:10–12:00: Taisuke Yoneyama (Tokyo University of Science)

Characterization of the ranges of wave operators via wave packet transform

	7th (Sat.)	8th (Sun.)	9th (Mon.)
10:00 – 10:50	Y. Tadano	T. Fuda	M. Kawamoto
11:10 – 12:00	Y. Terasawa	Y. Terasawa	T. Yoneyama
Lunch Break (90min)			
13:30 – 14:20	Y. Kubota	Y. Kubota	
14:40 – 15:30	K. Usui	K. Mikami	
Coffee Break (30min)			
16:00 – 16:50	E. Korotyaev	Y. Goto	
17:10 – 18:00	Y. Miyanishi		