



## Spectral and Scattering Theory and Related Topics

**Date:** December 2nd (Mon.) – 4th (Wed.) 2019.

**Place:** Research Institute for Mathematical Sciences (RIMS), Room 111.

### Program

#### December 2nd (Monday)

**13:30 – 14:30** ISOZAKI, Hiroshi

*Continuum limit for lattice Hamiltonians*

**14:45 – 15:45** RICHARD, Serge (Nagoya university)

*Discrete Laplacian in a half-space with a periodic surface potential:  
- Resolvent expansions, scattering matrix, and wave operators -*

**16:00 – 17:00** ASSAL, Marouane (Pontificia Universidad Católica de Chile)

*Eigenvalue splitting for a system of Schrödinger operators with an energy-level crossing*

#### December 3rd (Tuesday)

**9:45 – 10:45** KAWASHITA, Mishio (Hiroshima university)

*Asymptotics of some function corresponding to refraction phenomena arising  
in inverse problems for wave equations in flat two-layered medium*

**11:00 – 12:00** MORIOKA, Hisashi (Ehime university)

*Non-scattering energies for acoustic-type equations on manifolds with a single flat end*

**(Lunch)**

**13:30 – 14:30** KAWAMOTO, Masaki (Ehime university)

*Mourre theory for time-periodic magnetic fields*

**14:45 – 15:45** KIYOSE, Amane (Kobe university)

*On the Mourre estimates for Floquet Hamiltonians*

**16:00 – 17:00** TAIRA, Koichi (Tokyo university)

*Scattering theory for repulsive Schrödinger operators and applications to limit circle problem*

**December 4th (Wed)**

**9:45 – 10:45** DIMASSI, Mouez (Université de Bordeaux)

*On the Schrödinger operator with a confined magnetic field and a slowly varying potential*

**11:00 – 12:00** HIGUCHI, Kenta (Ritsumeikan university)

*Resonance free domain for a system of Schrödinger operators with an energy-level crossing*

**Organizer :** WATANABE, Takuya (Ritsumeikan university)

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