

# RIMS workshop

## Spectral and Scattering Theory and Related Topics

Organizer: Tomoyuki Kakehi (Okayama University)  
Coorganizer: Keiichi Kato (Tokyo University of Science)

Day: January 20(Wed.)-22(Fri.), 2016

Venue: RIMS Room 420 (4th floor).

### Program

#### January 20(Wed.)

- 13:30-14:20 Kazunori Ando (Ehime University)  
Anomalous localized resonance on smooth domains using spectral properties of the Neumann-Poincaré operators
- 14:30-15:20 Satoshi Ishiwata (Yamagata University)  
Asymptotic expansion of the transition probability for non-symmetric random walks on crystal lattices
- 15:40-16:30 Yoshihisa Miyanishi (Osaka University)  
Remarks on the difference spectrum of semiclassical Schrödinger Operators

#### January 21(Thur.)

- 10:00-10:50 Erik Skibsted (Aarhus University)  
Decay of eigenfunctions of elliptic PDE's
- 11:00-11:50 Dean Baskin (Texas A & M University)  
Asymptotics of scalar waves on asymptotically Minkowski spaces
- 13:30-14:20 Matti Lassas (University of Helsinki)  
Scattering in complex geometrical optics and the inverse problem for the conductivity equation
- 14:30-15:20 Tapio Helin (University of Helsinki)  
Inverse acoustic scattering from random potential

- 15:40-16:30 Teemu Saksala (University of Helsinki)  
Determination of a Riemannian manifold  
from the distance functions
- 16:40-17:30 Serge Richard (Nagoya University)  
Continuity of the spectra for families of magnetic operators on  $Z^d$

January 22(Fri.)

- 10:00-10:50 Trinh Khanh Duy (Kyushu University)  
On global spectral properties of random Jacobi matrices  
related to Gaussian beta ensembles
- 11:00-11:50 Akito Suzuki (Shinshu University)  
Weak limit theorem for an inhomogeneous quantum walk
- 13:30-14:20 Masanori Kawamoto (Kobe University)  
Scattering in a periodically pulsed magnetic field
- 14:30-15:20 Taisuke Yoneyama (Tokyo University of Science)  
An application of wave packet transform to scattering theory