



2021 RIMS Workshop Spectral and Scattering Theory and Related Topics

Date December 1st (Wed.) - December 3rd (Fri.)

Venue Online Meeting by Zoom

Dec. 1st (Wed.)

10:00-10:45 Kouta Ujino (Kyushu University)

Exact Hausdorff dimension of the spectral measure for the graph Laplacian on a sparse tree

11:00-11:45 Hiroaki Niikuni (Maebashi Institute of Technology)

Spectral discriminants for a variant graphene with bump boundaries

14:00-14:45 Kazuyuki Wada (National Institute of Technology, Hachinohe College)

Witten index for 1-dimensional split-step quantum walks under non-Fredholm condition

15:00-15:45 Kenta Higuchi (Ritsumeikan University)

Semiclassical resonances generated by crossings of classical trajectories

16:00-16:45 Taisuke Yoneyama (Kitasato University)

Construction of modified wave operators via wave packet transform

Dec. 2nd (Thu.)

10:00-10:45 Mihai Putinar (University of California, Santa Barbara)

Non-commutative methods in 2D spectral analysis

11:00-11:45 Hyeonbae Kang (Inha University, Korea)

Negative eigenvalues of the Neumann-Poincare operator

14:00-14:45 Koichi Taira (Ritsumeikan University)
Construction of spectral measures via Isozaki-Kitada modifier and its applications

15:00-15:45 Kentaro Kameoka (University of Tokyo)
Discrete Schrödinger operators and Finsler metric

16:00-16:45 Takashi Furuya (Hokkaido University)
Scattering by the local perturbation of an open periodic waveguide in the half plane

Dec. 3rd (Fri.)

10:00-10:45 Shota Fukushima (University of Tokyo)
*Construction of fundamental solutions to Schrödinger equations on compact manifolds
by Feynman path integral methods*

11:00-11:45 Naoto Kumano-go (Kogakuin University)
Phase space Feynman path integrals of parabolic type

Organizers: Kazunori Ando (Ehime University), Hisashi Morioka (Ehime University)

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