

# 立命館大学 微分方程式セミナー

この度来学されますEvgeny Korotyaev氏 (Saint-Petersburg State University)に、一次元シュレディンガー作用素の共鳴の理論について、初学者向けに講義をして頂きます。ご関心のある方は、是非ご参加下さい。

日時: 2017年1月23日(月) 15:00 -- 17:15

場所: 立命館大学 BKC ウェストウイング6階 談話会室

講師: Evgeny Korotyaev (Saint-Petersburg State University)

講義題目: Resonances of Schrödinger operators on the line:

[15:00 – 16:00] Review Part I

[16:15 – 17:15] Review Part II

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## Resonances of Schrödinger operators on the line

Evgeny Korotyaev  
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We consider resonances one dimensional self-adjoint operators with compactly supported coefficients: Schrödinger operators, Dirac operators, Stark operators, Euler-Bernoulli operator. We discuss the relationship between resonances and zeros of entire functions. We determine the class of corresponding functions.

We describe asymptotics of a counting function of resonances in complex discs at large radius. Moreover, we consider the forbidden domain for resonances and obtain trace formulas in terms of resonances. We consider the problem to recover the potential using the resonances.