



MAFIA - the seminar you can't refuse

How 'bad' can a non-self-adjoint Schrödinger operator be?

Petr Siegl

TU Graz

January 4, 2022

13:15–14:15

in T112

Fakulta jaderná a fyzikálně inženýrská ČVUT
Trojanova 13, 12000 Praha

Abstract: We give an overview of results on non-self-adjoint Schrödinger operators, focusing on the effects caused by strong complex potentials and magnetic fields. In particular we investigate spectral, pseudospectral and basis properties.

We highlight remaining open problems and discuss links to related topics.

The talk is based on joint works with A. Arnal (Belfast), B. Gerhat (Prague), D. Krejcirik (Prague), B. Mityagin (Columbus) and J. Viola (Nantes).