

SEMINÁŘ OTF

HYNEK BÍLA
(OTF ÚJF AVČR, ŘEŽ)

Scattering In Non-Hermitian Theories

Abstrakt

We introduce an approach to scattering problems in theories with non-Hermitian Hamiltonian, usually known as PT-symmetric quantum theories, by means of the adiabatic switching of the interaction. The modifications of usual methods needed to employ time-dependent metrics are described. We argue that an analogue of the adiabatic theorem hold for time dependent metrics and that its validity forms a necessary condition for consistency of the procedure. Two toy models are presented for sake of illustration.

**Seminář se koná v pátek 13. 3. 2009 v 10:30 hod.
v zasedací místnosti ÚJF Řež**

A. Cieplý/otf