Analysseminariet

Michael Melgaard: On bound states for a system of weakly coupled Schrödinger equations in one space dimension. (Work in progress)

Abstract: We establish the Birman-Schwinger relation for a class of Schrödinger operators $-d^2/dx^2 \otimes 1_H + V$ on $L^2(\mathbb{R}, H)$, where His an auxiliary Hilbert space and V is an operator-valued potential. As an application we give an asymptotic formula for the bound states which may arise for a weakly coupled Schrödinger operator with a matrix potential (having one or more thresholds).

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