

STABILITY OF PEAK SOLUTIONS FOR NLS EQUATIONS WITH POINT INTERACTIONS

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ABSTRACT. The aim of this talk is to demonstrate effectiveness of extension theory of symmetric operators for investigation of stability of standing waves for semi-linear Schrödinger equations with δ - and δ' -interaction on the line and on the star graph. Our approach relies on the theory of stability for Hamiltonian systems which are invariant under a one-parameter group of operators.

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