# SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

## Extension theory approach in stability of standing waves for NLS equation with point interactions

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**Resumo:** Our aim is to demonstrate effectiveness of extension theory for investigation of stability of standing waves for semi-linear Schrödinger equation with $\delta$- and $\delta'$-interaction. Our approach relies on the abstract theory by Grillakis, Shatah and Strauss for Hamiltonian systems which are invariant under a one-parameter group of operators.