



# SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

$L^2$ -Concentration for a coupled nonlinear Schrödinger system

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**Resumo:** In this work we use ideas of Bourgain to prove the  $L^2$ -concentration of blow-up solutions for two-coupled nonlinear Schrödinger equations at critical dimension. We obtain this result, considering initial data in  $H^1$  and initial data in  $L^2$ .