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CHARLA

Some Brezis-Kamin type problems with applications to Schrödinger Equation involving vanishing potentials

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RESUMEN

This talk is about the existence of solutions for the semilinear Schrödinger equations

$$-\Delta u + V(x)u = f(x, u) \quad \text{in } \mathbb{R}^n, \quad n \geq 3, \quad (1)$$

where V is a nonnegative vanishing potential and $f(x, u)$ is a Carathéodory function with sublinear growth near the origin. This is a joint work with Denilson Pereira (UFCG), Patricio Cerda (USACH) and Anderson Cardoso (UFS).