



UNIVERSIDADE FEDERAL DE ALAGOAS
PROGRAMA DE PÓS-GRADUAÇÃO EM
MATEMÁTICA



On the inhomogeneous NLS equation with inverse-square potential

Carlos Guzman Jimenez (UFF)

Resumo: We consider the inhomogeneous nonlinear Schrödinger equation with inverse quadratic potential, denoted by, $(INLS_a)$. $i u_t + L_a u + |x|^{-b} |u|^\alpha u = 0$, where $L_a = -\Delta + a|x|^2$. In this talk we discuss some results for $(INLS_a)$, such as local and global well posedness. To this end, we use the Fixed Point Theorem based on the Strichartz estimates. Moreover we also discuss the scattering problem. This is a joint work with Luccas Campos (UFMG).

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