SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Global well-posedness and weak concentration for a $3D$ nolinear Schrödinger system

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Abstract: We establish some results concerning the Cauchy problem and the dynamics for a cubic nonlinear Schrödinger system arising in nonlinear optics. A sharp criterium is given concerned with the dichotomy global existence versus finite time blow-up. When a radial solution blows up in finite time, we prove the concentration in the critical Lebesgue space.