WELL-POSEDNESS ISSUES FOR A CLASS OF COUPLED NONLINEAR SCHRÖDINGER EQUATIONS WITH CRITICAL EXPONENTIAL GROWTH

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ABSTRACT. The initial value problem for some coupled nonlinear Schrödinger equations in two space dimensions with exponential growth is investigated. In the defocusing case, global well-posedness and scattering are obtained. In the focusing sign, global and nonglobal existence of solutions are discussed via potential well-method.

REFERENCES


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