



SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

**Some results on the Schrödinger equations with fourth-order
dispersion**

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Resumo: In this talk some results about existence of local and global solutions to the Cauchy problem associated to the nonlinear fourth-order Schrödinger equation with isotropic and anisotropic mixed dispersion are presented. Some ideas about the convergence of the solutions for the nonlinear fourth-order Schrödinger equation as the mixed dispersion coefficients go to zero, will be commented.