

## **On a coupled system of nonlinear Schrödinger equations**

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In this talk we will discuss some results regarding solutions to the initial value problem associated to a coupled system of nonlinear Schrödinger equations appearing in optics. Our results include local and global well-posedness for periodic data. We also will comment on results concerning the existence and stability of cnoidal waves solutions for this system. Joint work with J. Angulo (UNICAMP-Brazil).