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Modelling multimode nonlinear optics experiments with the Nonlinear Schrödinger equation Peter Horak

Optoelectronics Research Centre, University of Southampton, Southampton SO17 1BJ, U.K.

Abstract: The nonlinear Schrödinger equation has become a valuable tool to model and interpret experiments in multimode optical fibers and waveguides. I will discuss several applications and the corresponding simplifications or additions of terms in the equation required to match experimental and numerical results.