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**THE NONLINEAR SCHRODINGER'S EQUATION, WITH
TIME-DEPENDENT COEFFICIENTS, IN A NON-KERR LAW
MEDIA**

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In this talk, the nonlinear Schrodinger's equation, that governs the propagation of solitons through optical fibers, will be analysed. The coefficients of dispersion, nonlinearity and attenuation are all time-dependent. The types of nonlinearity that are considered are Kerr law, power law, parabolic law as well as the dual-power law. Finally, the velocity of the soliton is also obtained in terms of these coefficients for all four cases.

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