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**A LIE SYMMETRY APPROACH TO NONLINEAR
SCHRODINGERS EQUATION WITH NON-KERR LAW
NONLINEARITY**

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In this talk we obtain the stationary 1-soliton solution of the nonlinear Schrodinger equation in non-Kerr law media. The types of nonlinearity that are considered are Kerr law, power law, parabolic law and the dual-power law. The technique that is used to carry out the integration of this equation is the Lie symmetry analysis.

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