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The study of Laser - Lorenz System

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Abstract: The generalized Lorenz system i.e Laser -Lorenz system is studied numerically where chaotic behaviors are possible to occur in class C lasers. Helical chaos appeared in the relation between imaginary part of laser field and real part of the same field and in the relation between imaginary part of polarization of the medium and real part of the laser field.

Keywords: Lorenz system, Laser- Lorenz system, Chaos, Helical chaos