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Area of Interest

My area of interest is **"Plasma Physics, Laser Plasma interaction, Terahertz radiation generation"**.

List of Publications

INTERNATIONAL

1. **Deepak Tripathi,** Lalita Bhasin, R. Uma and V. K. Tripathi, "Terahertz generation by an amplitude-modulated Gaussian laser beam in a rippled density plasma column", Physica Scripta **82**, 035504 (2010).
2. **Deepak Tripathi,** Lalita Bhasin, R. Uma and V. K. Tripathi, "Nonstationary ponderomotive self-focusing of a Gaussian laser pulse in a plasma", Physics of Plasmas, **17**, 113113 (2010).
3. **Deepak Tripathi,** R. Uma and V. K. Tripathi, "Energy transfer between two crossed laser beams in a non-isothermal plasma", Physics of Plasmas, **18**, 023108 (2011).
4. **Deepak Tripathi,** Lalita Bhasin, R. Uma and V. K. Tripathi, "Laser beat wave terahertz generation in a clustered plasma in an azimuthal magnetic field", **P**hysics of Plasmas, **18**, 053109 (2011).
5. **Deepak Tripathi,** R. Uma and V. K. Tripathi, "Excitation of Terahertz radiation by an electron beam in a dielectric lined waveguide with rippled dielectric surface", Physics of Plasmas, **19**, 093105 (2012).

International/ National Conferences/ Workshops

1. **Deepak Tripathi**, R. Uma and V. K. Tripathi, "Nonstationary ponderomotive self-focusing of a Gaussian laser pulse in a plasma", presented in the International Joint ICTP-IAEA College on Plasma Physics held in Trieste, Italy during October 01-12, 2012.
2. **Deepak Tripathi**, R. Uma and V. K. Tripathi "Energy transfer between two crossed laser beams in a nonisothermal plasma", presented in the 5th International Conference on the Frontiers of the Plasma Physics and Technology held in Singapore during April 18-22, 2011.
3. **Deepak Tripathi**, R. Uma and V. K. Tripathi, "Laser beat wave terahertz generation in a clustered plasma in an azimuthal magnetic field", presented in the International Conference on

Frontier Topics in Nanostructures and Condensed Matter Theory held in London, Canada during March 09-11, 2011.

4. **Deepak Tripathi**, R. Uma and V. K. Tripathi, "Terahertz generation by an amplitude modulated Gaussian beam in a plasma", presented in the International Conference on Tera Tech'09, held in Osaka, Japan during 30 Nov - 03 December 2009.
5. Attended Plasma Science Society of India (PSSI), held in National institute of information technology (NIIT) Hamirpur, Himachal Pradesh, India during December 08-11, 2009.
6. Attended Plasma Science Society of India (PSSI) held in Ahmedabad, Gujarat, India during December 06-10, 2007.
7. Participated in Topical workshop on Terahertz radiation generation and applications, held in IIT Delhi, New Delhi, India during March 26-27, 2011.

Patents

Nil

Research Projects

Nil