

Conference on Plasma Simulations

Department of Physics, Indian Institute of Science

January 18-19, 2018



The purpose of this Conference on Plasma Simulations is to highlight and bring together the leading researchers in the field of computational plasma physics to discuss advanced models, methods and algorithms to solve higher dimensional, complex nonlinear problems.

The meeting will be an important forum for communication of new ideas in numerical methods, algorithm development, parallel processing and programming techniques.

Topics: Plasma simulations

- Space and astrophysical plasmas
- Magnetic and inertial fusion plasmas
- Intense laser interaction with plasma
- Plasma-surface interactions

Numerical methods for plasma simulations

- MHD, other fluid methods for plasma
- Kinetic plasma methods - PIC and Vlasov
- Gyro-kinetic and gyro-fluid methods
- Scientific visualization for numerical simulation

[List of Participants](#)

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