

Seminar

Institute for Plasma Research

- Title :** High Performance Computing (HPC) – Applications in Computational Physics
- Speaker :** Dr. Nitya Hariharan
Intel Technology Private Ltd, Bangalore
- Date :** 05th February 2016 (Friday)
- Time :** 11.00 AM
- Venue :** Seminar Hall, IPR

Abstract:

The last few decades have seen tremendous improvements in many areas of scientific research, thanks to the progress made in the field of HPC. It is nowadays considered to be third pillar of science, along with theory and observations/experiments. The talk focuses on my previous HPC-related work experience at two Max Planck Institutes, Institute for Plasma Physics (IPP) and the Max Planck Institute for Astrophysics (MPA) in Garching. At IPP I was part of the High Level Support Team that provides parallel computing support to the Plasma Physicists. This includes benchmarking and optimization of their codes. My work at MPA was related to the enhancement of a 3D Monte Carlo Radiative Transfer code, to enable high-resolution simulations at much lower computational costs.
