PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 10.05.2017, 16 Uhr c.t.
Großer Hörsaal, Raum _0.111,
Max-von-Laue-Str. 1

Dr. Paul Neumayer

GSI Helmholtzzentrum für Schwerionenforschung
Darmstadt

A n t r i t t s v o r l e s u n g

"Ionization Potential Depression in Dense Plasmas"

Ions embedded in a plasma experience a lowering of the ionization energies, a consequence of the other charged particles perturbing the ionic potential. This ionization potential depression (IPD) can significantly affect the ionization state of the plasma. Modeling of IPD in dense, strongly-coupled plasmas remains a great challenge. In this talk, I will give a short introduction to one of the most widely used IPD models, and present recent experiments at large-scale facilities that have put its predictions to the test in plasmas at unprecedented densities.

Die Dozenten der Physik

local host: Prof. Luciano Rezzolla, rezzolla@th.physik.uni-frankfurt.de