

集中講義

科目名： MPIとの交換講義 (M391*) (1 単位)

Lecturer : Prof. Klaus Hallatschek (Max-Planck Institute)

Schedule :

- #1 11-May. (Fri) 14:50-16:20
- #2 14-May. (Mon) 13:00-14:30
- #3 15-May. (Tue) 14:50-16:20
- #4 16-May. (Wed) 14:50-16:20
- #5 17-May. (Thu) 14:50-16:20
- #6 18-May. (Fri) 14:50-16:20
- #7 21-May. (Mon) 13:00-14:30

Place : Lecture Room on 2F in H-building

Title : Introduction to kinetic plasma physics

Abstract : In hot or diluted Plasmas, for example in space or in nuclear fusion devices, particle collisions are so rare that strong deviations from a Boltzmann distribution occur. The customary fluid equations (Navier-Stokes, MHD) break down and it is necessary to follow individual particle populations separately - i.e., to use a kinetic description. Surprisingly the particles do not simply move independently. The free charges in plasmas interact via collective electric and magnetic fields, which gives rise to a plethora of phenomena and theoretical concepts unknown for normal fluids.

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