

【AEES special lecture:12】

科目名：先端エネルギー工学専攻 特別講義第十二 (M3912)

-- 1 単位 / 1 credit --

==MPI<Max-Planck Institute>との交換講義==

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

Schedule :

Oct. 5 (Mon.) 14:50-16:20

Oct.6 (Tue.) 14:50-16:20

Oct. 7 (Wed.) 13:00-14:30

Oct. 8 (Thu.) 14:50-16:20

Oct. 9 (Fri.) 14:50-16:20

Oct. 13 (Tue.) 14:50-16:20

Oct. 14 (Wed.) 13:00-14:30

Place : Lecture Room on 2F in H-building (Chikushi Campus)

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. In detail the following effects and principal phenomena are to be discussed:

Contact: Shigeru Inagaki, inagaki@riam.kyushu-u.ac.jp , 092-583-7716