Joint DESY and University of Hamburg Accelerator Physics Seminar

Monday, May 07-th, 2007

(17:00 in Room 459/30b)

Plasma Position Measurement & Feedback Control in the IR-T1 Tokamak

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Abstract

A) A short introduction about Tokamaks and calculations of magnetic fields that play an important role in it.
B) The role of horizontal displacements of the plasma inside the torus, and methods for measuring it inside the Tokamak.
C) Demonstration of the conditions desired for plasma position control by using a feedback on the vertical field in radial direction.
D) Calculations for measuring the net outward force which is exerted on the plasma, to determine the feedback field which is needed for its control.
D) Status of the Tokamak on the Plasma Physics Research Campus.

NOTE THE UNUSUAL DATE AND TIME

D.P.Barber (MPY), S.Khan (Univ. HH), J.Roßbach (Univ. HH) and M.Vogt (MPY).

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