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# Diagnosis Control Plasma Instabilities Tokamaks Mohsen

**diagnosis of physical parameters of fast particles in high ...** - to cite this article: m tardocchi et al 2013 plasma phys. control. fusion 55 074014 ... investigate the interaction of energetic ions with mhd instabilities. high energy resolution ... are expected to play a fundamental role in the diagnosis of both fast ions and the bulk plasma. the paper is organized as follows. the principles behind high ... **diii-d diagnostic systems - digital library** - stability and transport. they have enabled precise real time control of the plasma configuration and, in a number of cases, plasma instabilities. comprehensive diagnosis of the plasma core has resulted in a more fundamental understanding of transport and the associated role of turbulence. this, coupled with enhanced diagnosis of the edge region, **development of an emulator for the plasma process control** - development of an emulator for the plasma process control 13 4% for the ar flow rate which concludes the acceptance of this model again (fig. 5b). **fall 2016, vol. 11 issue 1 apam news** - these fields and currents are properly applied, instabilities of the plasma boundary are suppressed. columbia students and scientists have pio-neered many of the techniques used to control magnetized plasma instabilities that are now also used in larger national research facilities and **dr. gregory a. rochau - university of michigan** - ties in the plasma conditions and dynamics that occur near peak compression, the need for new diagnostic capability, and the need to control laser plasma instabilities. greater cross-fertilization of expertise and ideas across the national program combined with advance- **experimental summary scenarios diagnostics runaways ...** - 8 observation of mev range ions in icrh experiments with the three ions scenarios at jet page 8 - a novel icrh scheme that exploits the favourable polarization properties of the electric field at the l cutofflayer in 3 species plasmas has been developed-mev range fast ions were generated and observed by a number of diagnostics, especially gamma-ray and neutron spectroscopy. **office of science financial assistance funding opportunity ...** - office of science financial assistance funding opportunity announcement de-ps02-07er07-29 national spherical torus experiment collaborative research on configuration optimization the office of fusion energy sciences (ofes) of the office of science (sc), u.s. department of **diagnosis of energetic ions and ion composition in fusion ...** - diagnosis of energetic ions and ion composition in fusion ... plasmas, and important to monitor as part of input to plasma control. the collective thomson scattering of millimeter ... measured, and phenomena related to plasma instabilities observed. for scattering in the plane near perpendicular to the magnetic **a field programmable gate array unit for the diagnosis and ...** - triggering of the ts lasers on specific amplitudes and phases of ntm evolution. the mast plasma control system can receive a separate trigger from the fpga unit that initiates a vertical shift of the mast magnetic axis. such shifts have fully removed  $m/n = 2/1$  ntms instabilities on a number of

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