

Seminar

Institute for Plasma Research

Title : International Tokamak Physics Activity (ITPA)

Speaker: Dr. Indranil Bandyopadhyay

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Date : 29th November 2019 (Friday)

Time : 11.30 AM

Venue : Seminar Hall, IPR

Abstract:

This presentation is intended to explain the activities under the ITPA. ITPA was constituted in 2001 under the auspices of the International Fusion Research Council (IFRC) to promote collaboration focused on carrying out R&D activities both in experiments, as well as theory and modeling to cater to ITER R&D needs. Thereafter in 2008, it was brought directly under the control of ITER with the IO guiding its activities. The organisation of the ITPA consists of a Coordination Committee and seven topical groups in various core areas of tokamak physics, namely Diagnostics; Energetic Particle Physics; MHD, Disruptions and Control; Integrated Operation Scenarios; Pedestal and Edge Physics; Srape-off-layer & Divertor Physics and Transport & Confinement. Each of the ITER members, as also some of the non-member countries involved in fusion research have members in the ITPA. These topical groups carry out joint activities in experiments across various machines, theory and modeling activities for explaining experimental observation and data validation. India also has a strong presence in some of these groups, particularly MHD Disruptions and Control and SOL-Divertor groups, where several results of Aditya have been presented, discussed and appreciated. Aditya Disruption data has also been included in the global Tokamak Disruption database. We have also made significant contributions to several modeling activities. Some of these activities as also opportunities for improved participation will be discussed in this presentation.
