

Edge Coordinating Committee A/V Support

Closeout for DoE Grant DE-SC0010493

Funds from this grant were used to pay for A/V equipment rentals at two meetings of the Magnetic Fusion Edge Coordinating Committee:

1) Fall 2013 Technical Meeting

An ECC Technical Meeting was held on November 13, 2013 in Denver, CO during the APS-DPP meeting. The lunchtime session featured a review of collaborative efforts contributing to the 2013 US Joint Research Target in the physics of enhanced confinement regimes without ELMs. Stefan Gerhardt (PPPL) gave the summary talk, and a period of Q/A and discussion followed.

2) 2015 US/EU Transport Task Force Workshop - Salem, MA

April 28th-May 1st

PURPOSE OF THE MEETING

The ultimate goal of the U.S. Transport Task Force is to develop a physics-based understanding of particle, momentum and heat transport in magnetic fusion devices. This understanding should be of sufficient depth that it allows the development of predictive models of plasma transport that can be validated against experiment, and then used to anticipate the future performance of burning plasmas in ITER, as well as to provide guidance for the design of next-step fusion nuclear science facilities. To achieve success in transport science, it is essential to characterize local fluctuations and transport in toroidal plasmas, to understand the basic mechanisms responsible for transport, and ultimately to control these transport processes. These goals must be pursued in multiple areas, and these topics evolve in order to reflect current interests.

Edge Coordinating Committee technical sessions were embedded into the TTF meeting in Salem.

Topical areas for the 2015 meeting in Salem, MA were:

Turbulence/neo-classical/MHD integration

*Core/edge/SOL/wall integration**

*Understanding H- and I-mode pedestals**

Multi-scale/multi-channel integration

Impurity transport

Effects of energetic particles on core confinement

*Understanding the H-mode power threshold minimum**

Integrated modeling

3D/RMP effects on confinement, turbulence & energetic particles

**Areas of particular interest for the Edge Coordinating Committee*

Links to the abstracts for the presentations from this TTF meeting are at:

<http://www-internal.psfc.mit.edu/TTF2015/abstracts.html>

Links to the talks and posters can be found at:

http://www-internal.psfc.mit.edu/TTF2015/TTF-2015_schedule.html

http://www-internal.psfc.mit.edu/TTF2015/BreakoutSessions_ttf-2015.html