National Spherical Torus eXperiment Upgrade

NSTX-U / Magnetic Fusion Science Meeting

December 6, 2021

PPPL PRINCETON PLASMA PHYSICS LABORATORY

PRINCETON UNIVERSITY

Some upcoming events

- Dec. 6-9, 2021 (virtual), IAEA Technical Meeting on Energetic Particles (~~deadline: Oct. 6~~)
- Dec. 12-16, 2021 (virtual), IEEE-SOFE & PPC (~~deadline: Aug. 15~~)

- Feb. 15-17, 2022 (virtual), US-Japan CT workshop (deadline: Feb. 1)
- April 5-8, 2022 (Santa Rosa, hopefully), US-EU TTF (deadlines: TBA)
- May 15-19, 2022 (Rochester, NY), 24th HTPD (deadlines: Invited - Dec. 10; others - Jan. 31)
- June 12-16, 2022 (Anaheim), ANS-TOFE (deadline: Feb. 15)
- June 12-17, 2022 (Jeju Island, South Korea), PSI-25 (deadline: Dec. 7)
- June 20-24, 2022 (Warsaw, Poland), ISHW (deadlines: TBA)
- June 27-July 1, 2022 (Maastricht), EPS Conf. Plasma Physics (~~deadline invited: Oct. 29~~)

MAST-U Call for Proposals

- The second MAST-U Experimental Campaign is expected to start July, 2022
  - The internally funded portion is planned for the first four months (July - Nov)
- Proposals for the internally funded portion are being accepted until Dec 31
  - Proposals should be submitted via the online form (link)
  - MAST-U Research forum will be January, 2022
- The main objectives of MU02 are:
  - Understanding the effect of divertor magnetic configuration on SOL transport, power and particle dissipation and loads to divertor PFCs
  - Understanding the role of divertor configuration on plasma performance including H-mode access and pedestal parameters
  - Improving scenario performance towards long pulse, including error field correction and RMPs for ELM control and compatibility with detached divertors
  - Exploring fast ion instabilities, confinement, heating and current drive
- Discuss ideas for potential proposals with the responsible Topic Leaders:
  - Integrated Scenarios: Luca.Garzotti@ukaea.uk
  - Pedestal and MHD physics: Christopher.Ham@ukaea.uk Samuli.Saarelma@ukaea.uk
  - Fast Particles, Heating and Current Drive: Ken.McClements@ukaea.uk Michael.Fitzgerald@ukaea.uk
  - Exhaust Physics: James.Harrison@ukaea.uk
  - Proposals in other areas should contact James.Harrison@ukaea.uk

Tutorial this Thursday (Dec. 9)

Live Demo of the OMFIT kineticEFITtime module

Thursday, Dec. 9

8 am PT / 11 am ET

https://pppl.zoom.us/j/97360040693?pwd=Qm5nMUMwWmUvRklFa3QySXI1elkxdz09

Will be recorded and posted for future reference