

Abstract Submitted  
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**Thomson Scattering on NSTX-U** BENOIT LEBLANC, AHMED DI-ALLO, PPPL — The MPTS Thomson scattering diagnostic has been supporting NSTX-U since its start of operation in August 2015. At the time of this writing more than 1000 plasmas have been documented. While most MPTS elements from “NSTX” were reutilized, significant changes were necessitated: The laser-beam path was re-aimed in order to accommodate for the larger center-stack diameter of NSTX-U. The presence of a new neutral beam box required the introduction of mirror optics in order to dump the laser beams away from the measurement region. The FY2016 run marks the start of operation of a previously installed upgrade to 42 channels. Details of the new MPTS configuration will be given and experimental results will be presented. Future plans will also be discussed. This work was funded by DOE contract DE-AC02-09CH11466.

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