

High Pedestal Pressure Path to High Fusion Performance Leveraging the New "Shape and Volume Rise" Divertor on DIII-D

Saturday 18 October 2025 09:50 (20 minutes)

Speaker's email address

twilks@psfc.mit.edu

Speaker's Affiliation

MIT Plasma Science and Fusion Center, Cambridge, MA

Member State or IGO

United States

Gender Survey (Speaker Only)

Ms

Authors: HYATT, Alan (General Atomics); HUBBARD, Amanda (Massachusetts Institute of Technology, Plasma Science and Fusion Center); HOLM, Andreas (LLNL); NELSON, Andrew (Columbia University); HOLCOMB, Christopher (Lawrence Livermore National Laboratory); WILKS, Theresa (UsMIT)

Co-authors: SHIRAKI, Daisuke (Oak Ridge National Laboratory); ERNST, Darin (MIT); TURCO, Francesca (Columbia University); WANG, Huiqian (General Atomics); YANG, James (Princeton Plasma Physics Laboratory); HUGHES, Jerry (MIT PSFC); Dr BALBIN-ARIAS, Julio (College of William and Mary); Dr KIM, Kyungjin (Oak Ridge National Laboratory); KNOLKER, Matthias (General Atomics); SHAFER, Morgan (Oak Ridge National Laboratory); SNYDER, Philip (Oak Ridge National Laboratory); HU, Qiming (PPPL); Dr GERRU, Raul (MIT PSFC); WILCOX, Robert (Oak Ridge National Laboratory); Dr GORNO, Sophie (Oak Ridge National Laboratory); Dr OSBORNE, Thomas (General Atomics); Dr MA, Xinxing (Oak Ridge Associated University)

Presenter: WILKS, Theresa (UsMIT)

Session Classification: Transport Barriers

Track Classification: EX - Magnetic Fusion Experiments including Validation: EX-P - Pedestal, Core-edge, Turbulence