Contribution ID: **3247** Type: **Regular Oral**

FIRST DEMONSTRATION OF DISRUPTION AVOIDANCE BY REAL-TIME PHYSICS-BASED DISRUPTION EVENT CHARACTERIZATION AND FORECASTING ON KSTAR

Thursday 16 October 2025 14:00 (20 minutes)

Speaker's email address

sabbagh@pppl.gov

Speaker's Affiliation

Columbia University, New York, New York, USA

Member State or IGO

United States

Gender Survey (Speaker Only)

Mr

Author: SABBAGH, Steven (Columbia University)

Co-authors: THORNTON, Andrew (United Kingdom Atomic Energy Authority); HAM, Christopher (UKAEA-C-CFE); RYAN, David (UKAEA); SHEEHAN, Freddie (Columbia University); TILLINGHAST, Grant (Columbia University); BUSTOS RAMIREZ, Guillermo (Columbia University); LEE, Hankyu (Columbia University); HAN, Hyunsun (Korea Institute of Fusion Energy); HARRISON, James (United Kingdom Atomic Energy Authority); Dr KIM, Jayhyun (Korea Institute of Fusion Energy); BARR, Jayson (General Atomics); KO, Jinseok (Korea Institute of Fusion Energy); LEE, Jongha (Korea Institute of Fusion Energy, Daejeon, Republic of Korea); Dr YOO, Jongsoo (PPPL); JEPSON, Joseph (Columbia University); RIQUEZES, Juan (Columbia University); BAK, Jun-Gyo (Korea Institute of Fusion Energy); ERICKSON, Keith (PPPL); LEE, Kyu-Dong (Korea Institute of Fusion Energy); KOGAN, Lucy (CCFE); TOBIN, Matt (Columbia University); CHOI, Minjun J. (Korea Institute of Fusion Energy); KIM, Minwoo (Korea Institute of Fusion Energy); SHOUSHA, Ricardo (Princeton University / PPPL); YOON, Siwoo (Korea Institute of Fusion Energy); ZAMKOVSKA, Veronika (Columbia University); KO, Won-Ha (Korea Institute of Fusion Energy (KFE)); Dr NAM, YongUn (Korea Institute of Fusion Energy); PARK, Young-Seok (Korea Institute of Fusion Energy); Dr LEE, YoungHo (Korea Institute of Fusion Energy)

Presenter: SABBAGH, Steven (Columbia University)

Session Classification: Disruption & RE

Track Classification: EX - Magnetic Fusion Experiments including Validation: EX-S - Stability