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6.43 Jet Outflow and Open Field Line Measurements on the C-2W Advanced Beam-Driven Field-Reversed Configuration Plasma Experiment

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Accurate operation and high performance of the open field line plasma surrounding the Field Reversed Configuration (FRC) is crucial to achieving the goals of successful temperature ramp up and confinement improvement on C-2W. Knowledge and control of the open field line plasma requires extensive diagnostic efforts. A suite of diagnostics, which consists of microwave interferometry, dispersive spectroscopy and spatial heterodyne spectroscopy, is being developed to measure electron density, ion temperature and particle outflow velocity at various locations along the open magnetic field lines. A detailed overview of these diagnostics is presented.

Primary author(s) : SHEFTMAN, Daniel (TAE Technologies, Inc.)

Co-author(s) : SMITH, Roger (TAE Technologies, Inc.); SCHMITZ, Lothar (TAE Technologies, Inc.); GUPTA, Deepak (TAE Technologies, Inc.); THOMPSON, Matthew (TAE Technologies, Inc.)

Presenter(s) : SHEFTMAN, Daniel (TAE Technologies, Inc.); SMITH, Roger (TAE Technologies, Inc.); SCHMITZ, Lothar (TAE Technologies, Inc.); GUPTA, Deepak (TAE Technologies, Inc.); THOMPSON, Matthew (TAE Technologies, Inc.)

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