

Abstract Submitted
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Between Shots TRANSP Web Service E. FEIBUSH, R. ANDRE, C. LUDESCHER-FURTH, S. KAYE, D. MCCUNE, PPPL — Running TRANSP between NSTX shots requires rapid data preparation and job submittal. A web service with a graphical user interface and data visualization has been developed to meet these goals. The underlying data preparation system has a command line interface written in Python and runs on a PPPL compute server. The display client is a Java program (ElVis) that sends requests to the data preparation system. As the run data is prepared, graphs are created and sent to the client for display. Flux surface plots are displayed and animated over time. The most commonly used control options are implemented in the UI as buttons and text fields. A time slice or time dependent run can be prepared. The command line interface is available in the client program for expert users to apply advanced settings, to prototype new UI buttons, and to run scripts. The client program contains a simple text editor for modifying the TRANSP namelist. When data preparation is complete the run is submitted to the TRANSP production system. The initial version has been deployed and is being tested in the control room setting. Results will be discussed in the poster presentation. Work performed at PPPL under the auspices of U.S. DOE Contract DE-AC02-76CH03073.

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