Abstract Submitted
for the DPP10 Meeting of
The American Physical Society

Interactive Plasma Physics Education Using Data from Fusion Experiments BRISA CALDERON, Whitworth U, BILL DAVIS, ANDREW ZWICKER, PPPL — The Internet Plasma Physics Education Experience (IPPEX) website was created in 1996 to give users access to data from plasma and fusion experiments. Interactive material on electricity, magnetism, matter, and energy was presented to generate interest and prepare users to understand data from a fusion experiment. Initially, users were allowed to analyze real-time and archival data from the Tokamak Fusion Test Reactor (TFTR) experiment. IPPEX won numerous awards for its novel approach of allowing users to participate in ongoing research. However, the latest revisions of IPPEX were in 2001 and the interactive material is no longer functional on modern browsers. Also, access to real-time data was lost when TFTR was shut down. The interactive material on IPPEX is being rewritten in ActionScript3.0, and real-time and archival data from the National Spherical Tokamak Experiment (NSTX) will be made available to users. New tools like EFIT animations, fast cameras, and plots of important plasma parameters will be included along with an existing Java-based "virtual tokamak." Screenshots from the upgraded website and future directions will be presented.

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Date submitted: 16 Jul 2010 Electronic form version 1.4