## Abstract Submitted for the DPP12 Meeting of The American Physical Society

Initial Results from the Phantom Fast Camera on HBT-EP<sup>1</sup> SARAH ANGELINI, J.P. LEVESQUE, M.E. MAUEL, G.A. NAVRATIL, Columbia University, S.F. PAUL, Princeton Plasma Physics Laboratory — A Phantom v7.3 fast camera has been installed on HBT-EP. A 656nm filter is used to ensure the light measured is due to  $D_{\alpha}$  emissions and not from other sources. Since these  $D_{\alpha}$  emissions are proportional to the neutral density and the plasma density, structural information about the plasma response and its instabilities can be reconstructed using the perturbations from the time-averaged emission profile. In this poster, the experimental setup will be described and comparisons between data from the magnetics diagnostics and the emission fluctuations will be explored.

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