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Development of a time-resolved stereoscopic PIV system[1]
KRISTIN IRLAM, Wittenberg.edu, JEREMIAH WILLIAMS, Wittenberg University — Over the past twenty years, a variety of particle image velocimetry (PIV) techniques have been used to characterize the particle transport and thermal state of dusty plasma systems. While the majority of these techniques required the use of a dedicated PIV system, recent advances in imaging technology have led to the development of a time-resolved two-dimensional (planar) version of this diagnostic technique which allows this diagnostic technique to be applied without the need for a dedicated PIV system. This poster will present recent work developing a relatively inexpensive time-resolved stereoscopic PIV system that can measure the full three-dimensional transport. Preliminary results will be presented.

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