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**Measurements within a GEC rf Reference Cell** JAMES CREEL, TRUELL HYDE, LORIN MATTHEWS, DAVID GEORGE, JORGE CARMONA REYES, CASPER - Baylor University, BROOKS MCMASTER, KE QIAO, MIKE COOK, JIMMY SCHMOKE, CASPER-Baylor University — Since its introduction, the GEC rf Reference Cell has provided a baseline for comparison among various experiments performed within the complex (dusty) plasma community. The GEC cell, while providing for data comparison between systems due to its standardized design, does not exist without some variation between cells. In this work, two GEC rf Reference Cells located within the CASPER Hypervelocity Impacts & Dusty Plasmas Lab will be utilized to examine variations in operating parameters. Both standard analysis and Langmuir probe techniques will be employed in an attempt to gain insight into the experimental workings of a standard GEC rf Reference Cell.

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