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Development of a Data Acquisition and Analysis System

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Poster Presentation P16

DEVELOPMENT OF A DATA ACQUISITION AND ANALYSIS SYSTEM

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In order to study the plasma state, we have begun constructing a radio-frequency plasma device at Illinois Wesleyan University. In this poster, we present the data acquisition system that was written for this project using LabVIEW. We have also written routines to extract relevant information, such as plasma temperature, density, and magnetic field fluctuations, from standard plasma diagnostic tools such as the Langmuir Probe and the B-Dot Probe.