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A MIP-Based Energy Calibration of the STAR Endcap Electromagnetic Calorimeter for 2009

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The Endcap Electromagnetic Calorimeter (EEMC) is an integral part of the STAR detector at RHIC. The EEMC is used in detecting forward particles from polarized proton interactions, which aid in understanding the spin structure of the proton. In order to properly use the data collected, the energy and position measurements in the EEMC need to be well known. To accomplish this, a calibration of the EEMC was done using minimum ionizing particles (MIPs) for the 2009 run.

Information about the Author:

A senior physics major, Zachary has an interest in nuclear physics and high energy physics. This summer's research project gave him the opportunity to explore this field. It also allowed him to apply his computer skills to the challenges presented in this project.

Faculty Sponsor: Dr. Robert Manweiler

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