

4-20-2011

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

Zachary Nault

Follow this and additional works at: <http://scholar.valpo.edu/cus>



Part of the [Astrophysics and Astronomy Commons](#)

Recommended Citation

Nault, Zachary, "A MIP-Based Energy Calibration of the STAR Endcap Electromagnetic Calorimeter for 2009" (2011). *Celebration of Undergraduate Scholarship*. Paper 38.
<http://scholar.valpo.edu/cus/38>

This Poster Presentation is brought to you for free and open access by the Office of Sponsored and Undergraduate Research at ValpoScholar. It has been accepted for inclusion in Celebration of Undergraduate Scholarship by an authorized administrator of ValpoScholar. For more information, please contact a ValpoScholar staff member at scholar@valpo.edu.

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

Zachary R. Nault

Departmental Affiliation: Physics and Astronomy
College of Arts and Sciences

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

Student Contact: zach.nault@valpo.edu