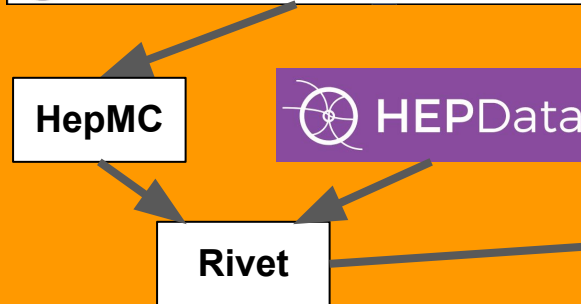


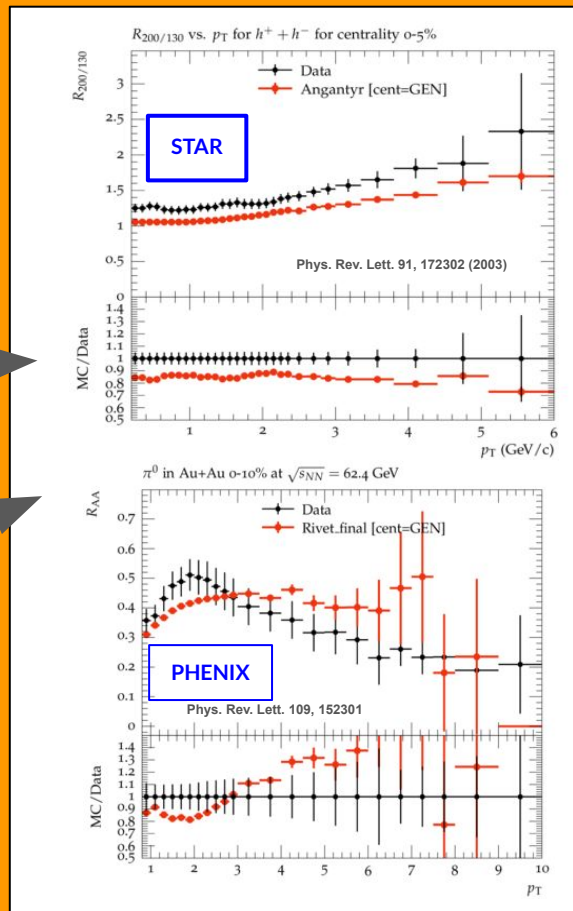


# ISMD2021

Rivet at RHIC: Theory Comparison and Education  
Antonio Carlos Oliveira da Silva, Christine Nattrass  
University of Tennessee - Knoxville



- Analyzes code repository (C++)
- Facilitates theory and data comparison
- Centrality determination is possible**
  - STAR, PHENIX and ALICE
- A wide variety of analysis are being implemented
  - Spectra, correlations, etc
- Rivet is relatively easy to use
  - Analyses are being implemented by undergrad students



## Course-based Undergraduate Research Experience at UTK

Instructors:

Dr. Christine Nattrass and Dr. Antonio Silva

- The course is in its 4th semester
- 17 undergraduate students
- Good source of workers for implementing analyses in Rivet
- <https://github.com/cnattras/RIVETAnalyses>

> CBE Life Sci Educ. Summer 2016;15(2):ar20. doi: 10.1187/cbe.16-03-0117.

## Early Engagement in Course-Based Research Increases Graduation Rates and Completion of Science, Engineering, and Mathematics Degrees

Stacia E Rodenbusch<sup>1</sup>, Paul R Hernandez<sup>2</sup>, Sarah L Simmons<sup>3</sup>, Erin L Dolan<sup>4</sup>

Affiliations + expand

PMID: 27252296 PMCID: PMC4909342 DOI: 10.1187/cbe.16-03-0117

Free PMC article

Where to find Rivet:

<https://gitlab.com/hepcedar/rivet>

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