

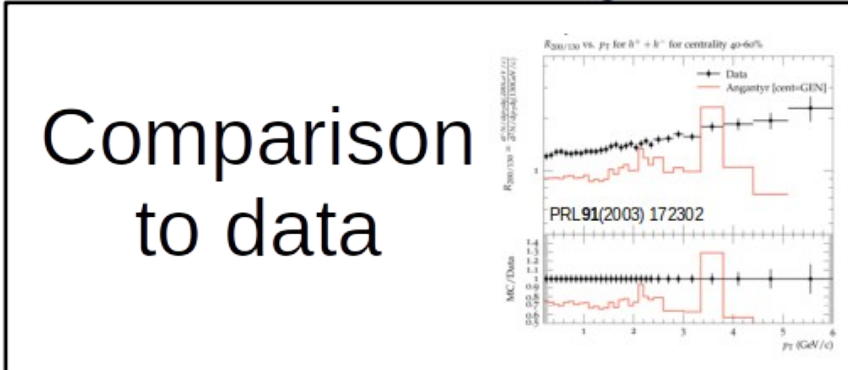


Monte Carlo Model

HepMC

HEPData

Rivet





Adopted by all major experiments

HepMC

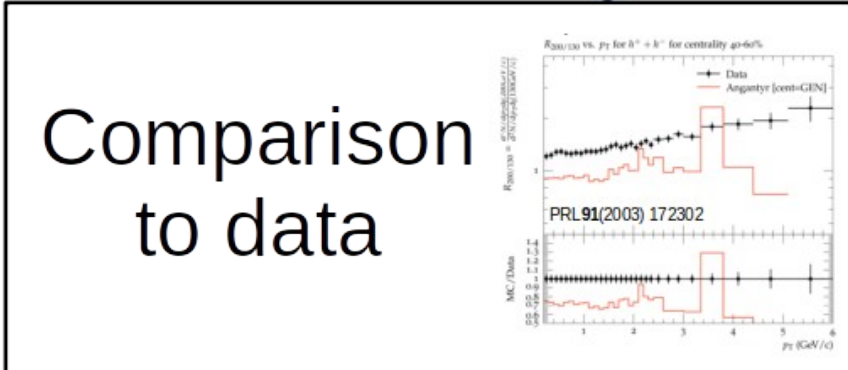
Now standard! See [HEPMC in HI Workshop](#)

HEPData

Rivet

Works with HI analyses!*

No fitting → no HBT





- Experimentalist benefits**
- Faster predictions from theorists
 - More citations!

Adopted by all major experiments

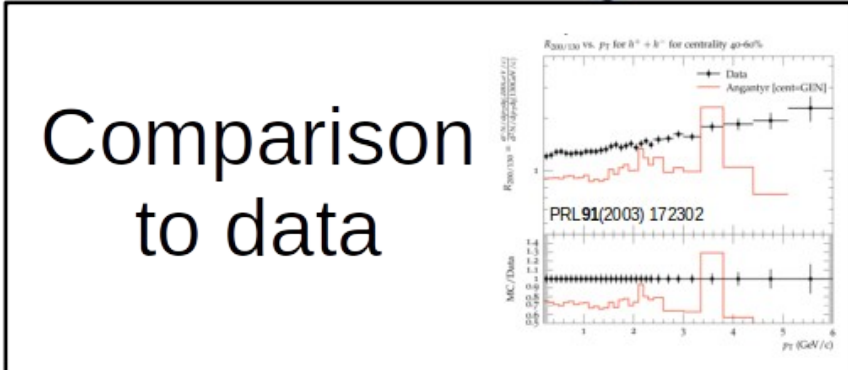
HepMC

Now standard! See [HEPMC in HI Workshop](#)

HEPData

Rivet

Works with HI analyses!*
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- Theorist benefits**
- Easy to compare to multiple measurements
 - No formatting data, digging through papers for kinematic selections



- Experimentalist benefits**
- Faster predictions from theorists
 - More citations!

- Field benefits**
- Data and analysis preservation
 - Improves analysis reproducibility
 - Conversations about which analysis details are important
 - Higher fidelity data/model comparisons
 - More efficient, better use of resources
 - Easier to compare to more data (inc. Bayesian parameter estimation)

Adopted by all major experiments

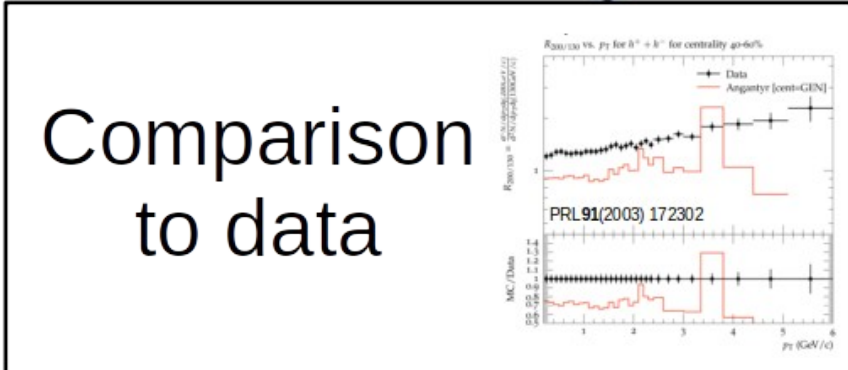
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Resources

- Install Rivet or load it on an existing farm
- Follow a Rivet tutorial
 - Slides and recordings from Rivetizing Heavy Ion Collisions at RHIC
- Course-based Undergraduate Research Experience
 - Implement Rivet analysis in semester
 - 5 semesters/20 students [10 women, 5 minorities, 3 non-traditional]
- 15 additional undergraduates → undergraduate friendly!

Request that the LRP suggest using Rivet.