

# HEPMC in Heavy Ion Collisions

Slack for Rivet in Heavy Ion Collisions

[https://join.slack.com/t/rivetinheavyi-4ym6036/shared\\_invite/zt-re8e10j5-vfQifozhNhOltgkOacxUmA](https://join.slack.com/t/rivetinheavyi-4ym6036/shared_invite/zt-re8e10j5-vfQifozhNhOltgkOacxUmA)

Google doc with minutes

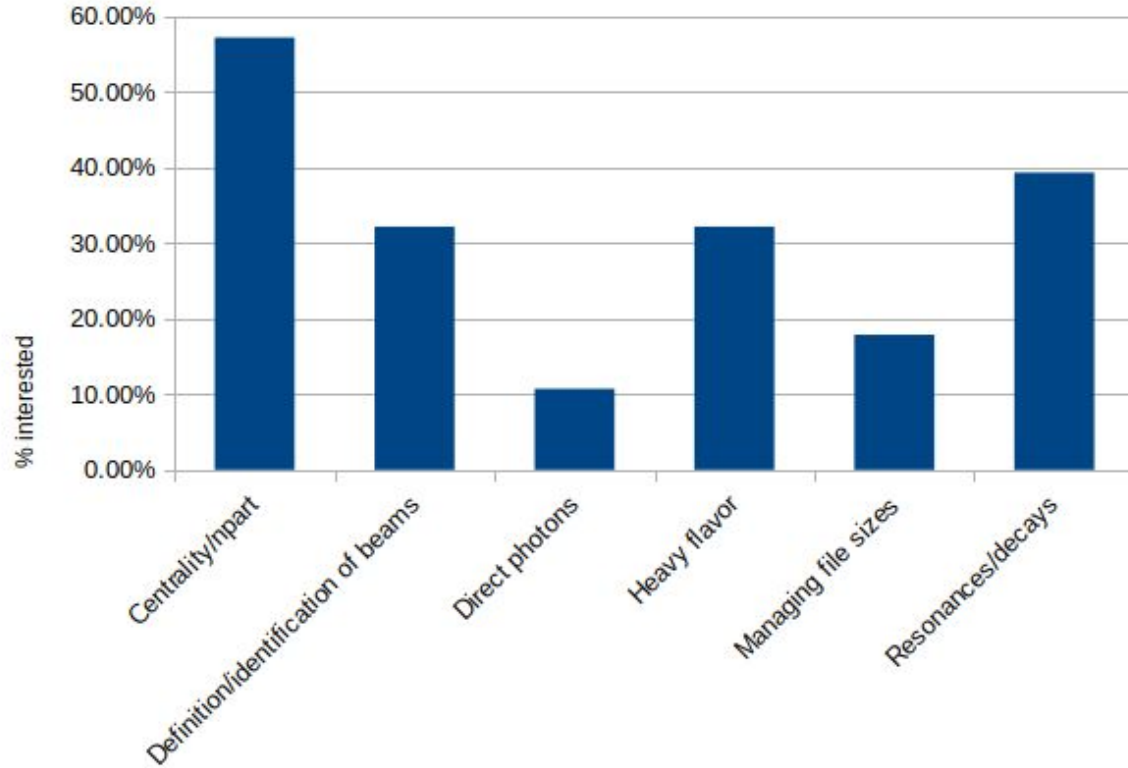
<https://docs.google.com/document/d/1ICZqUwPgAF1vqYS7rUcOE2ZFW534IIG27ZHu1okuGzg/edit?usp=sharing>

You may write to these but please log in and edit wisely. If you'd rather, you may take notes and share them with me afterwards.

## Goal:

Figure out what we need to do to get heavy ion generators' HEPMC output compliant (enough) with standards to work well with Rivet.

# Areas of interest:



## Others:

- Jets & jet suppression
- Two-particle correlations
- Jets
- Clusters, hypernuclei
- Multiplicity estimators

# What I think:

- Model developers need practical help with HEPMC standard compliance
- Do not need particles' full history but need at least first hadron/lepton/photon to final state particle
  - Last parton may be helpful if possible
- Some HEPMC standards may not be practical for HI collisions → some Rivet projections will not work → need to identify those projections
- Need a common approach to beams
- Output size is a major problem, particularly if we require more information