Jet Software | Status and Plans
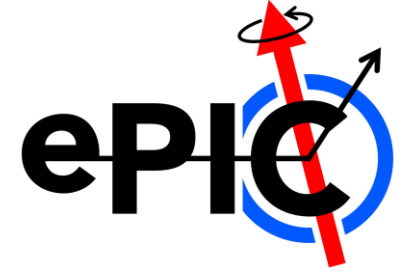
- **Status:** Jet factory were originally written as `JFactory` (which produce exactly 1 output)
  - Now upgrading to `JMultiFactory` (which can produce multiple outputs)
  - Work done in PR #767
    - Now merged!
- This upgrade will:
  - Make it easier to address EDM issues with jets (see issue #724)
    - **One approach:** jet multi-factory produces collection of jets and parallel collection of "jet parameters" which stores things like jet area
  - Prepare for unification factory interfaces
    - S&C team would like to have a single interface for **all factories** (see Nathan's recent update).
    - This upgrade will make the transition to such an "EpicFactory" a matter of changing names

- **Plans:** there are two key upgrades to take care of in near future
  a) **Enable jet-constituent podio relations:** jet constituents currently stored in same collection as jets
    - These associations can (and should) be handled via PODIO relations
    - Also referenced in issue #724
  b) **Enable user-configurability:** reconstruction parameters currently hard-coded
    - This should be changed to make it easier for users
    - And will allow for consistent handling of parameters via steering files across EICrecon

- Both can be addressed in a single PR
  - Good topic for September S&C workshop!
  - **Getting these in by the October campaign is reasonable**