

# PSA | Jet Type Now Integrated!



- [\[EICrecon#2674\]](#) Wouter updated the EICrecon jet reco output to be an [edm4eic::JetCollection](#) now!
  - From 26.06.0 onwards, it will be this new type!
    - ☞ If you're looking at its output, you'll need to make small changes (see right)
  - [\[physics benchmarks#107\]](#) I updated the existing benchmarks to consume new type, and also added histograms of the jet area
  - **Note:** I still need to update some examples in snippets...
- **Some follow-ups:**
  - Have been discussing strategies for improving algorithm throughput in [this thread](#)
    - ☞ Wouter [found a clever way](#) to optimize the Centauro algorithm! No clue on when it's going to make it into FastJet::contrib...
  - Downstream algorithms we should add:
    - a) Computing the background energy density (e.g. via off-axis cones)
    - b) Making Gen.-to-Rec. jet links

## Changes to make in your code:

- Change `edm4eic::ReconstructedParticle` → `edm4eic::Jet`
- Change `getParticles()` → `getConstituents()`
  - › And/or `.particles_*` → `.constituents_*`
  - › And/or `_*Jets_particles*` → `_*Jets_constituents*`
- Remove the following:
  - › `getMass()` or `.mass`
  - › `getPDG()` or `.pdg`

## New info available:

- Jet area → `getArea()` or `.area`
- Jet algorithm ([as enum'd by FastJet](#)) → `getType()` or `.type`

## Key:

- **Red** ⇒ using PODIO interface
- **Blue** ⇒ Using pure ROOT (e.g. via TTreeReader)