

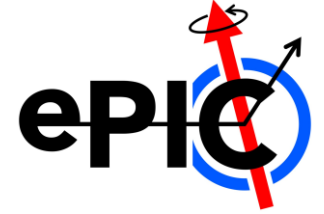
# EDM4jet | Proposed addition to data model



- **Right:** proposed jet type
  - Have presented to Jet/HF group and this group previously,
  - Conversation appears to have converged
  - Now looking for approval
- **Point of order:** for a type to be approved, does it have to be presented in the *weekly S&C* meeting?
  - Or in just A S&C meeting?

```
529 + ## =====
530 + ## Jets
531 + ## =====
532 +
533 + edm4eic::Jet:
534 +   Description: "A reconstructed jet, inspired by the FastJet PseudoJet"
535 +   Author: "D. Anderson"
536 +   Members:
537 +     - float          area          // jet area
538 +     - float          energy        // jet energy [GeV]
539 +     - float          backgroundEnergy // background energy density * area [GeV]
540 +     - edm4hep::Vector3f momentum    // jet 3-momentum [GeV]
541 +   OneToManyRelations:
542 +     - edm4eic::Jet      jets        // jets that have been combined to form this jet
543 +     - edm4eic::ReconstructedParticle constituents // constituents of this jet
```

# EDM4jet | Downstream changes



- **What components would need to be updated?**
  - 1) **[EICrecon]** jet reconstruction [algorithm](#)
  - 2) **[physics\_benchmarks]** jet [benchmark](#)
  - 3) **[snippets]** TTree reader [jet example](#)
    - ☞ Not required, but good for documentation!
  - 4) All user analysis scripts/macros
- **Target campaign for updates:** 26.01.0
  - (ie. after next pTDR version)
- **What changes would we need to make?**
  - 1) Change `edm4eic::ReconstructedParticle` → `edm4eic::Jet`
  - 2) Change `getParticles()` → `getConstituents()`
  - 3) Remove any references to `getPDG()`, `getCharge()`
- **But that's it!**
  - ☞ Otherwise new type would behave identical to `Reconstructed Particle`