

DBD Benchmark events: Test Sample

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Data Samples (1TeV Ecm)

- w33001,w33002: vvh
- w33005,w33006: ttbarh
- w33129,w33130: uDev (Wev)
- w33133,w33134: uDdU (WW,ZZ)

Procedure

- slic:
- lcsimTracking:
- slicPandora:
- jetClustering:

slic

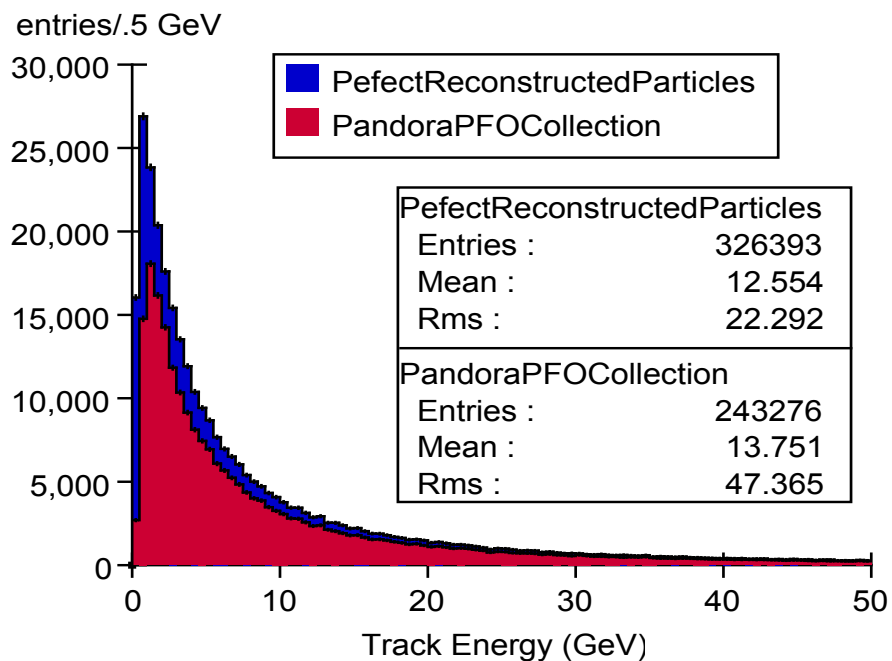
- Problems with “unknown particles” resolved.
- Have aborts on some events, losing the rest of the dataset. “zero vector can’t be stretched”, need to investigate

IcsimTracking

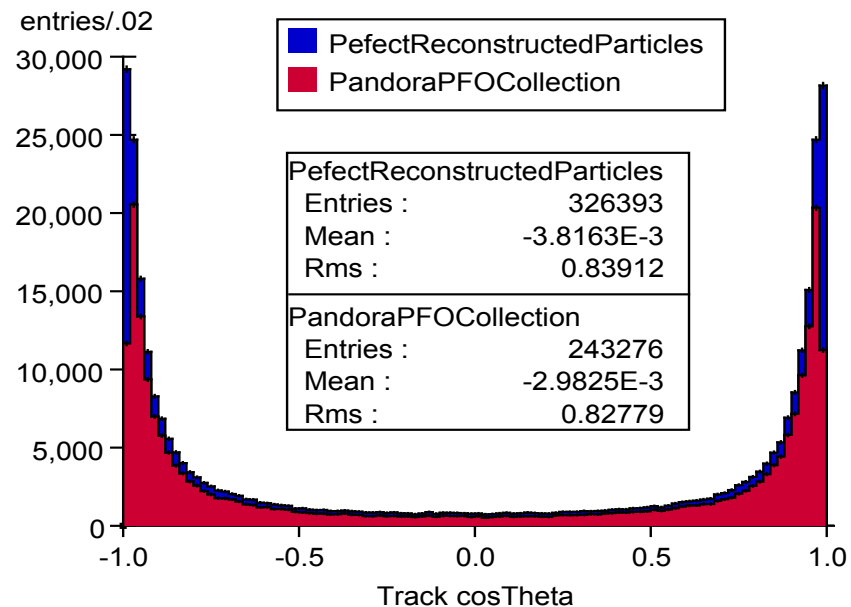
- Possible efficiency issues (next slide), needs investigation.
- Unrealistic high momentum tracks. (Always been the case)

PerfectReconstructedParticles ==
 Generator final state particles –
 neutrinos – particles with $\cos\theta >$
 0.993

w33133_sidloi3.aida - charged hadron - Energy



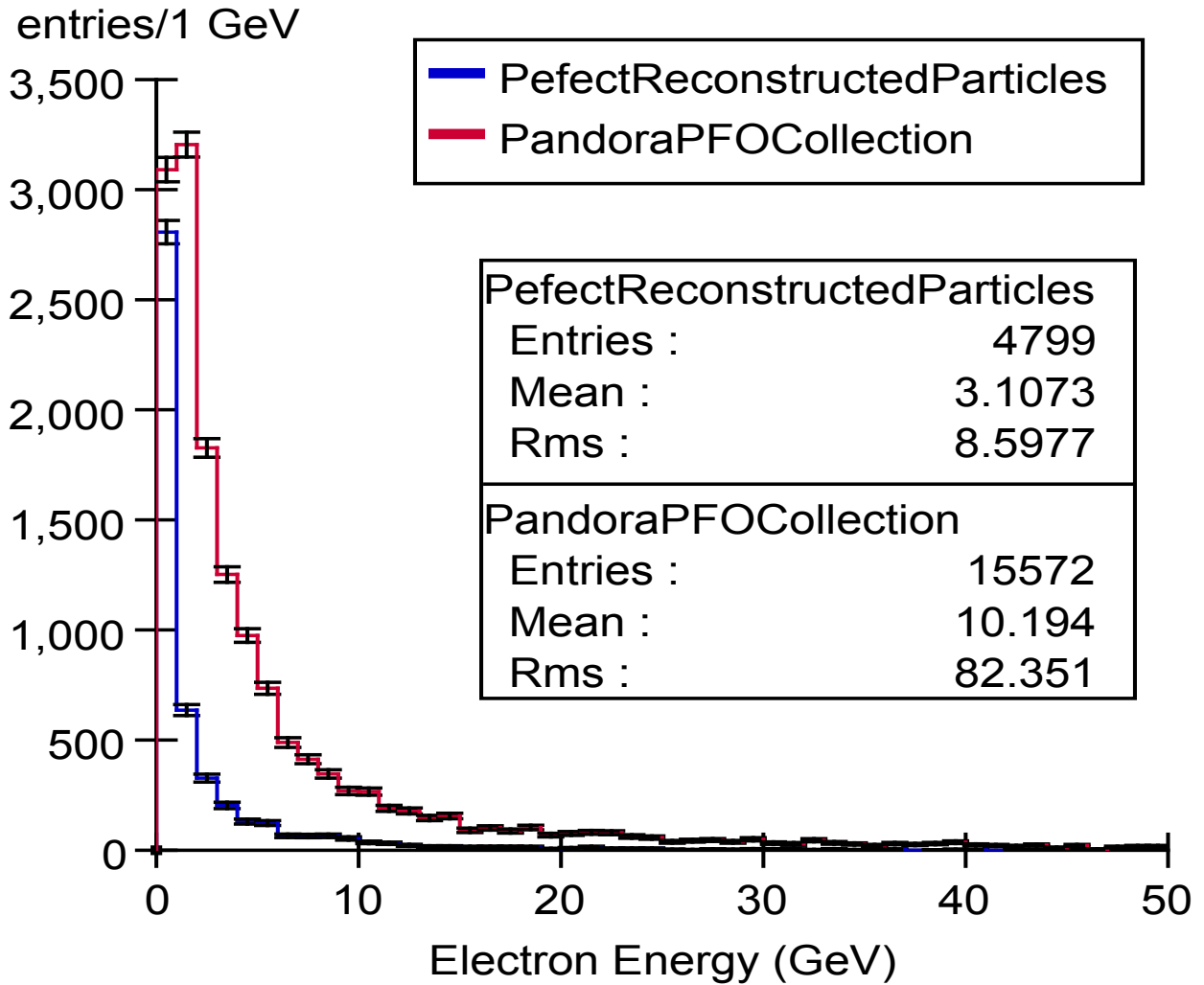
w33133_sidloi3.aida - charged hadron - CosTheta



slicPandora

- Unrealistic high P tracks are kept. (Solution?)
- Purity of lepton ID needs investigation.
- High P electrons reconstructed as multiple particles.
- Need to investigate jet Energy resolutions. (Consistent with qq numbers??)

w33134_sidloi3.aida - electron - Energy

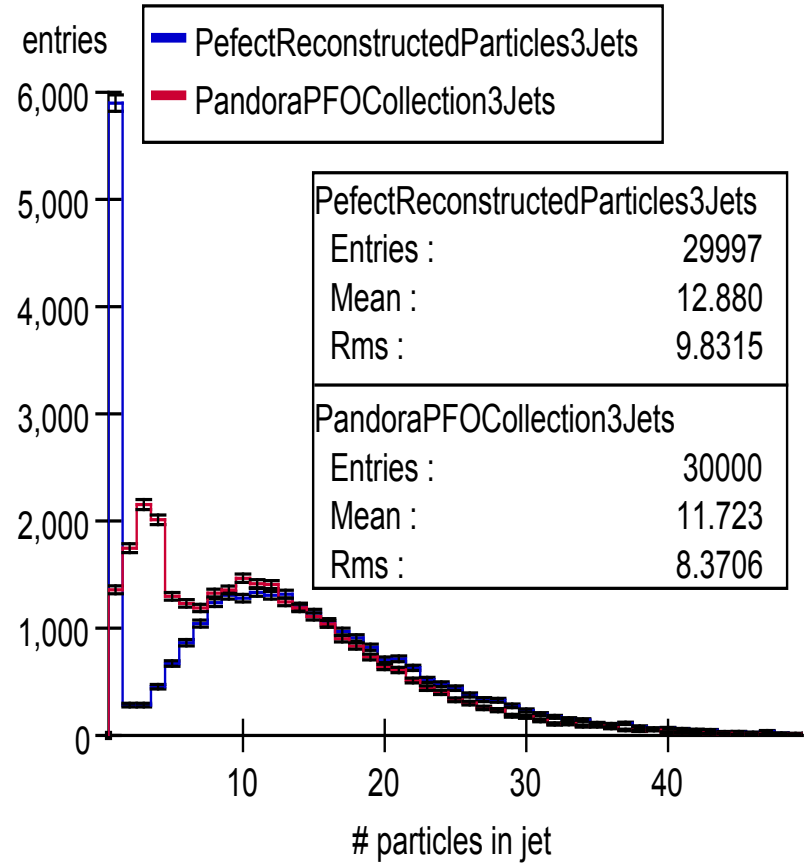


Wev events

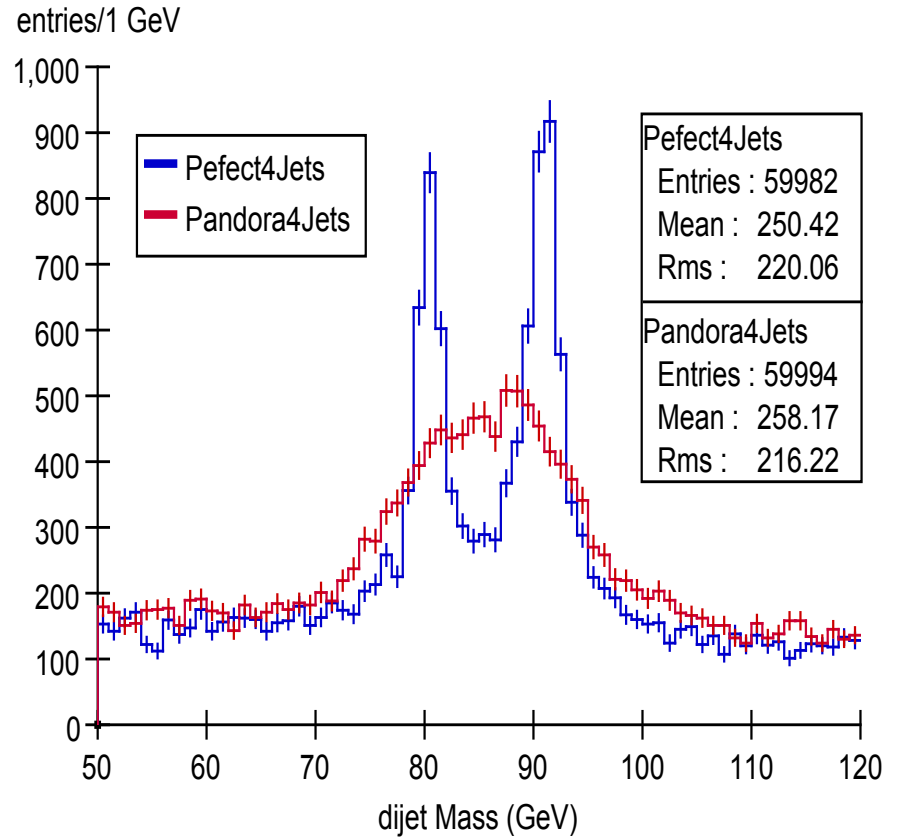
Force 3 jets

1 Jet should be single electron

w33129_sidloi3.aida - # particles in jet



w33134_sidloi3.aida - all 2jet comb - Mass



Summary

- Just starting
- Some problems, shouldn't take too seriously until more detailed look.
- Leading to WW analysis