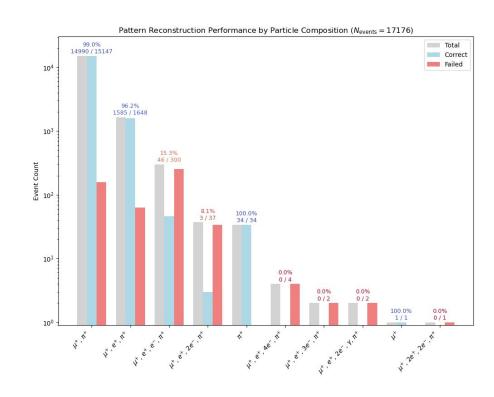
Pattern Finding Update

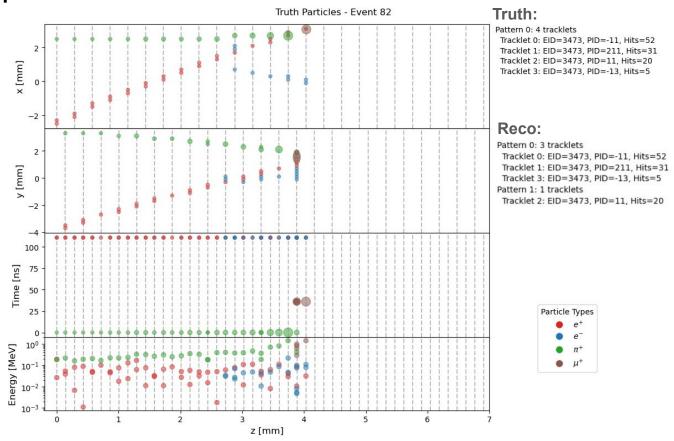
Jack Carlton
University of Kentucky

Pattern Finding performance by Particles in ATAR

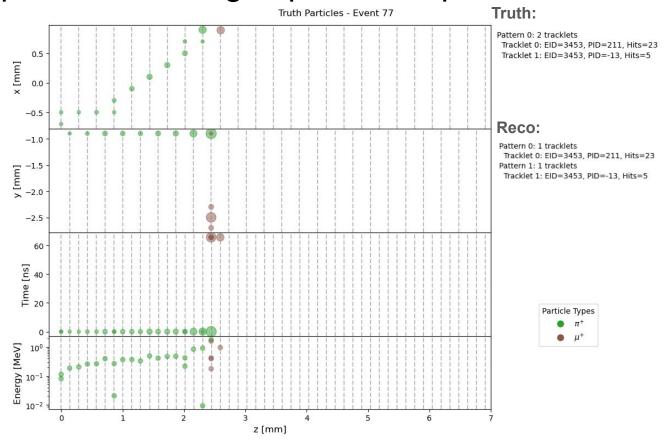
- First order failure modes are:
 - Events with an electron
 - Large spatial "jumps" in tracklets(?)
- No event mixing
 - TODO: test performance on mixed event
- Idea to solve electron events:
 - Need pattern finder to look for particles branching off middle of tracklets (not just ends)
- Idea to solve spatial jumps:
 - Use timing information to try to group muon hits, not just spatial data
 - Could be problematic for mixed events?



Example Failure: Electron Event

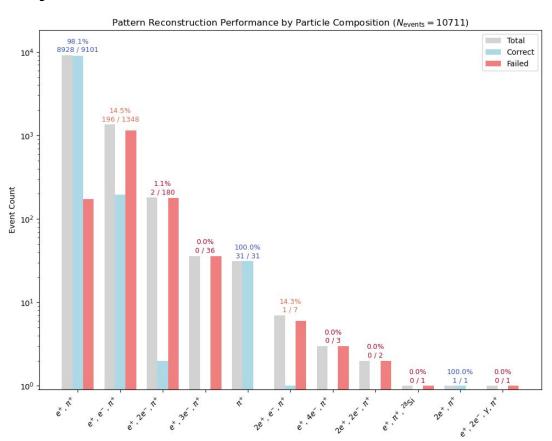


Example Failure: Large spatial Jumps



Backups

Pienu decays



Pattern finding on electron events

