

# Status of LVL2 e/ $\gamma$ ESD/AOD

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Objectives  
Level 1  
Tracking  
Calorimeter

# Persistification of trigger info at ESD

- Information currently available in the **CBNT** and used by the **e/ $\gamma$  analysis framework**
- **ESD level**: need to store **LVL2 clusters** and **tracks** and **LVL1 RoI** information
- **CBNT**: would be very good to use e/ $\gamma$  framework without major changes  $\rightarrow$  need some of the code to **fill CBNT from ESD**
- **AOD level**: minimal info about trigger menus satisfied (**very useful for physics analysis**)  $\rightarrow$  worry about this after ESD and CBNT are done
- Previous talks: PESA-Algo meetings Dec 7; Jan 27

# Level 1

- **RoIBuilder** results already available (Tadashi)
- But not enough information (isolation, energy...)
- Easiest solution was to **persistify trigger towers** so that results can be re-calculated
  - zero suppressed, so no size problems
- Also need to re-calculate LVL1 quantities from trigger towers to **fill CBNT**



# Tracking

- **TrigInDetTracks** converted to **TrackParticle**
- Code is in **today's nightly** (Default TrackParticleContainer name is "TrigTrackParticleCandidate")
- Tested against atrel\_4; some unrelated problems in atrel\_1, will test asap (more testing time would be nice)
- New package TrigTrackParticleCreator **depends on** TrigToTrkTrackTool and TrkParticleCreator
- Code under development to **write tracking info in CBNT** tracking block in same format as before (hope to be there for thursday)



# Preparation for Rome

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## • Status of persistification

- EMShowerMinimal persistification available and committed into cvs
- TrackParticle code running (in today's nightly)
- LVL1: work ongoing by Ethan and Alan. **Now on critical path**
  - Attempts to persistify TT's under way, but so far not successful (Ethan) - **Help would be welcome**
    - We hope to be ready for Thursday's nightly...
  - Need new CBNT which re-calculated LVL1 info from TT's (Alan)
- commit jobOptions to TriggerRelease to create CBNT from ESD's (Monika)
  - Not yet done, will be done on thursday

## • Plans for testing

- Tests will be done on 25GeV Rome initial layout single electrons once rel. 10 or pre-10 is out to test complete machinery