PPR: EMCAL-Trigger status

Trigger: Software status

o L0/L1 Trigger – Rachid

   o Complete redesign of relevant classes – lots of necessary work

   o Proper description of the electronic processing

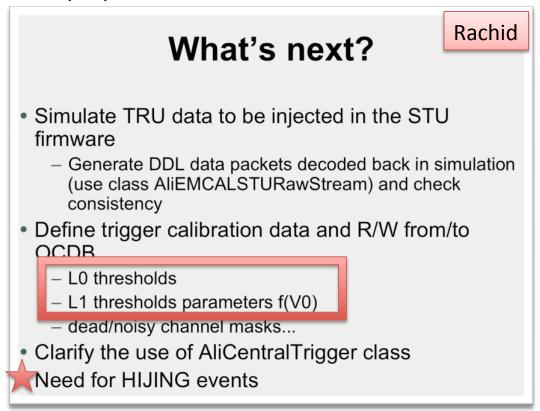   o Modularity – profit for maintenance

What's next?

Rachid

- Simulate TRU data to be injected in the STU firmware
  - Generate DDL data packets decoded back in simulation (use class AliEMCALSTURawStream) and check consistency
- Define trigger calibration data and R/W from/to OCDB
  - L0 thresholds
  - L1 thresholds parameters f(V0)
  - dead/noisy channel masks...
- Clarify the use of AliCentralTrigger class
- Need for HIJING events

Trigger: Software status

o L0/L1 Trigger – Rachid

    o Complete redesign of relevant classes – lots of necessary work

    o Proper description of the electronic processing

    o Modularity – profit for maintenance

Trigger: Software Status
- (HLT) progress

o HLT - Full barrel tracking
  o TPC+TRD track matching ready
    o Mainly error propagation work to be completed
    o Combined PID not yet fully resolved
  o ITS integration on the way
o HLT - EMCAL
  o Raw reconstruction ready
    o SPEED! Main concern
  o Track matching component ready
    o Full tests pending -> 2-3 weeks (Berkeley/CERN)
o Commissioning scheduled for June at HLT farm at CERN
  o Not only EMCAL but all of the subsystems
  o Major preparation for p+p collisions
  o V0 connected – ready for usage if needed
    o awaits reconstruction component(s)
o Trigger simulations are ongoing ("money plots" on the way)
  o Only p+p at the moment…

PPR and Beam operations

o Note: EMCAL Trigger is being prepared not only for PPR specific simulations but also for the physics run this year

o Immediate queries/tasks:

    o HLT (tracking) in HI collisions

        o Good prognosis – not fully verified

    o Role of HLT in EMCAL Calibration

        o Outstanding entry in planning tools (Shuttle/FXS)

        o And monitoring (?)

    o HLT-EMCAL trigger

        o Event tagging: 1st year -> high-pt $\sim\pi^0/\gamma/e$