

# Status Weekly $\Xi_c^0$ analysis meeting, July 10, 2020

- **Status**

- Cross checked Jinjoo's code in multiple environments:

- a. Analysis code (AliAnalysisTaskSEXic0Semileptonic.\*) is always the same

- \* Added a suffix "New" to avoid library in AliPhysics being loaded

- b. Two types of xCheck conditions:

- b-1. By steering macro (either my macro or Jinjoo's macro w/ minimum modification)

- b-2. By Environments (alidock or KIAF)

- c. Performed cross checks: by using data LHC17m – run 279000,

- \* All library version in Grid is the same as vAN\_200322-1 (ROOT5)

- c-1. My macro, alidock (ROOT6) + Grid

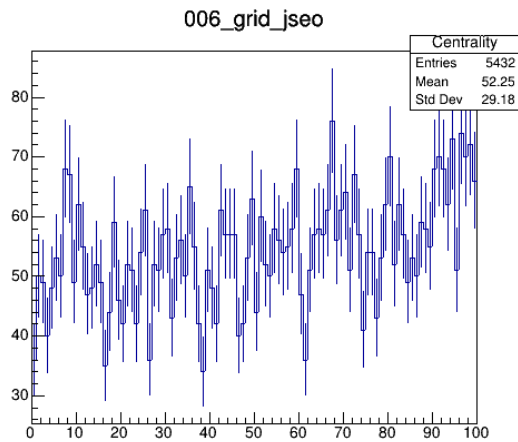
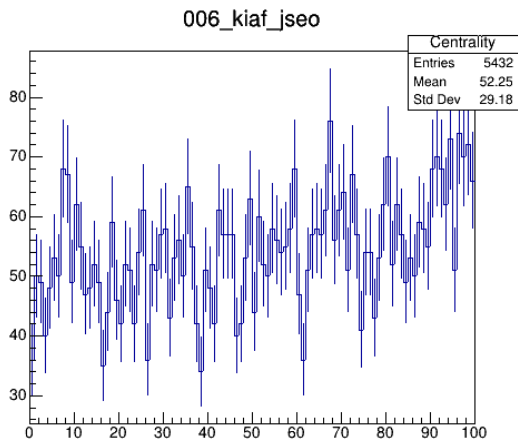
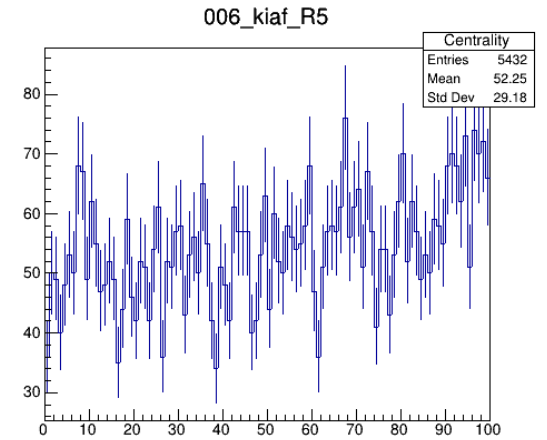
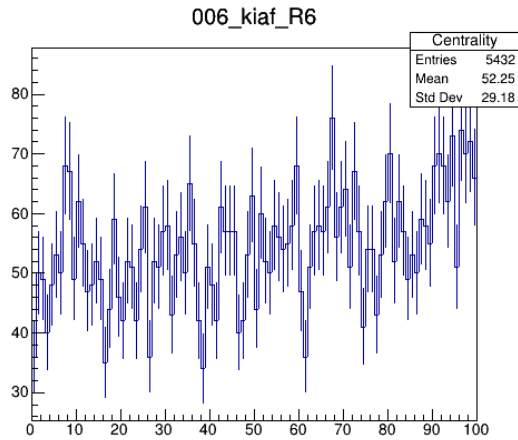
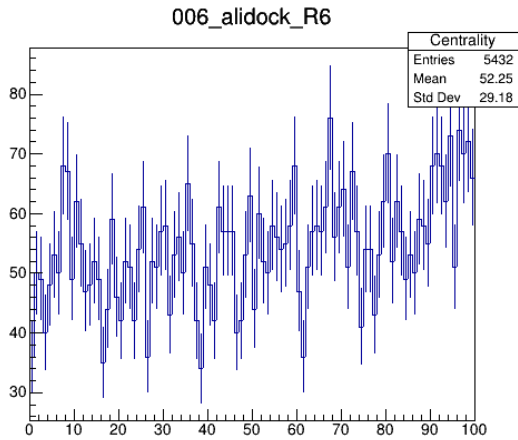
- c-2. My macro, KIAF (ROOT6, vAN\_200701-ROOT6-1 ) + Grid

- c-3. My macro, KIAF (ROOT5, vAN\_200322-1) + Grid

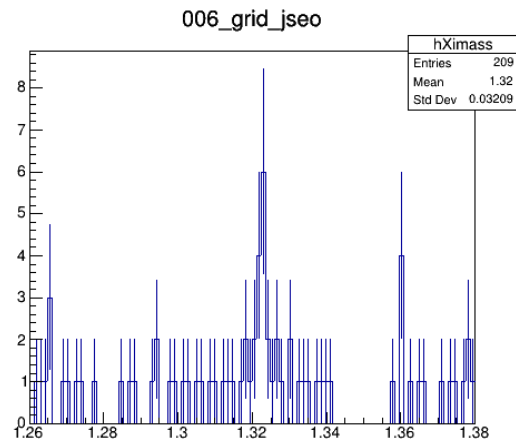
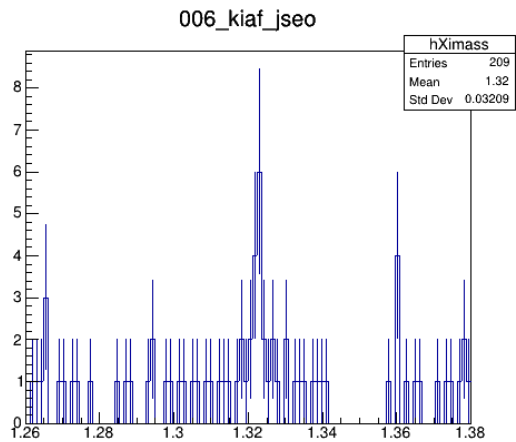
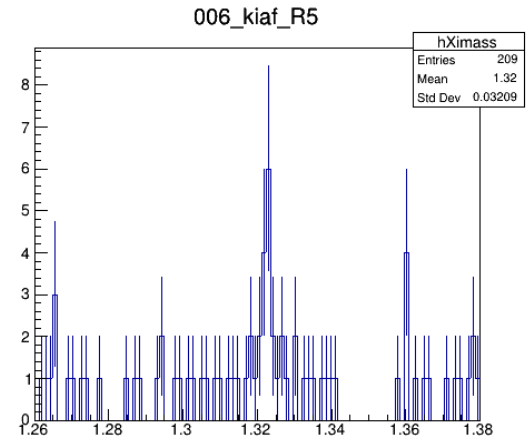
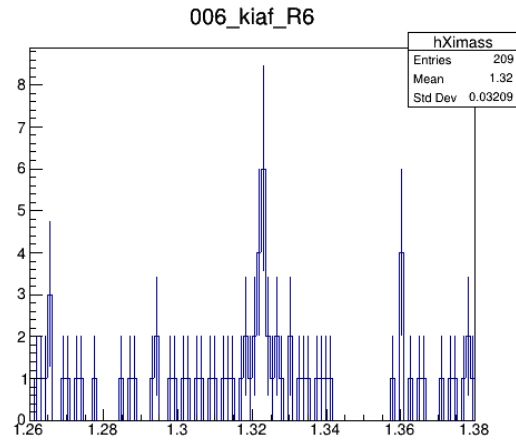
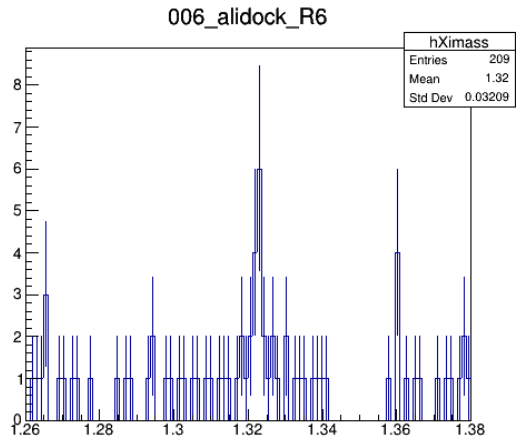
- c-4. Jinjoo's macro, KIAF (ROOT5, vAN\_200322-1) + Grid

- c-5. Results by Jinjoo (independent results obtained by Jinjoo, by her environment)

# xChecks Centrality, LHC17m\_279000, segment 6



# xChecks Xi mass, LHC17m\_279000, segment 6



# Summary and Outlook

- **Crosscheck**

- All results show exact match for a few randomly selected segments
- Also I compared stdout of my grid job and Jinjoo's grid job, by pick a random segment:  
almost exactly match
  - \* Differences originated from level of option 'PrintStatus()' or environment such as machine id
- Aside from the crosscheck results, I plan to use **KIAF (ROOT5) + Grid (vAN\_200322-1) only afterwards**
  - \* Some features such as merge does NOT work properly in alidock (ROO6) –  
it looks compatibility issue still lingers in ALICE framework

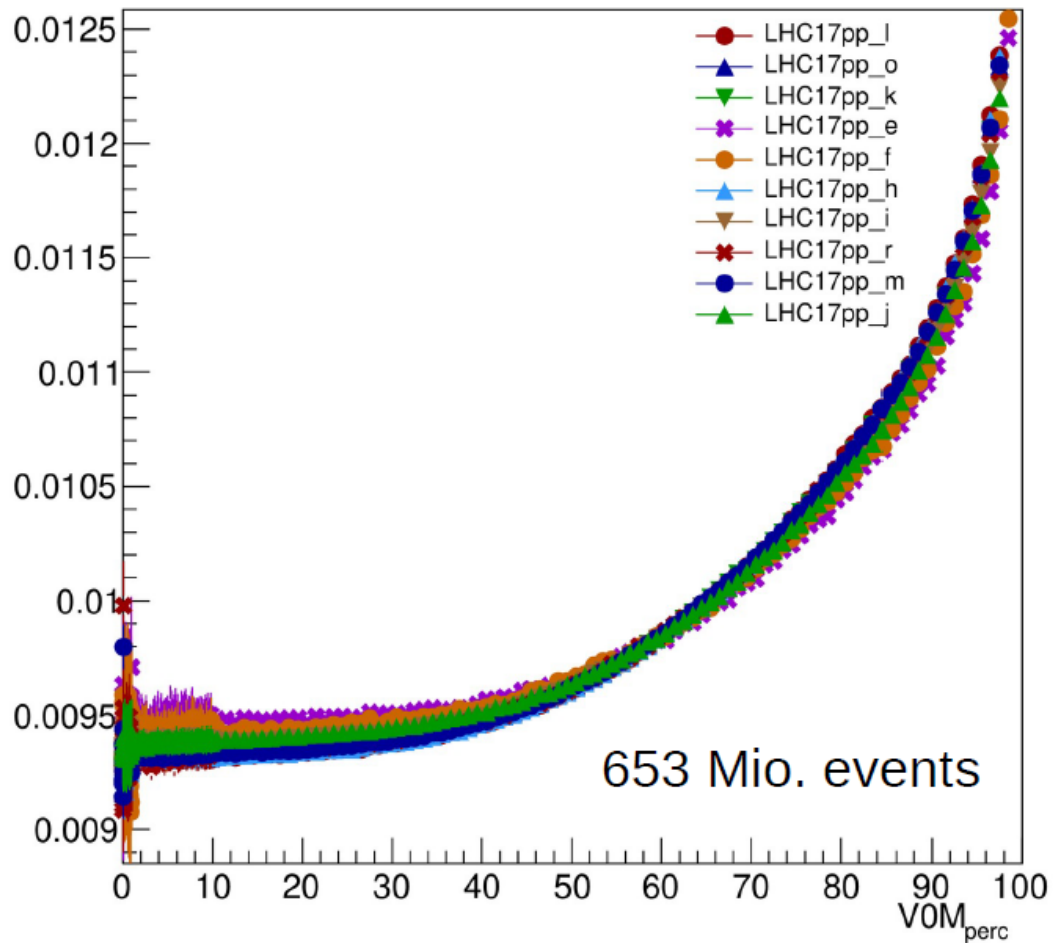
- **Next step**

- Received offline analysis macro from Jinjoo
- Plan to run entire period of LHC17m (108 runs): hopefully, it'd be sufficient to check next steps
- Plan to add some minor features on Jinjoo's analysis code (AliAnalysisTaskSE...):
  - a. Implement multiple triggers, select one later (ex. VOM) in offline analysis level
    - \* As long as I know, so far only **kINT7 (VOAND minBias)** was implemented
  - b. Multiplicity percentile (perhaps already exist?)

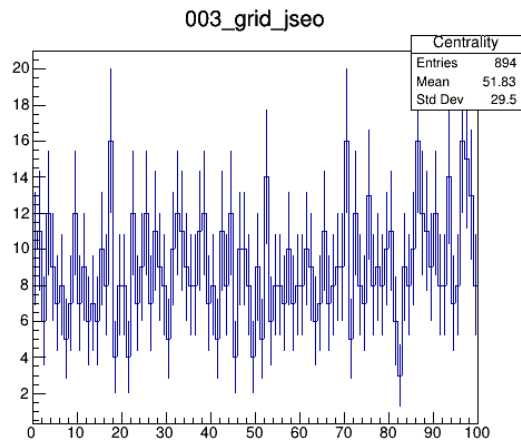
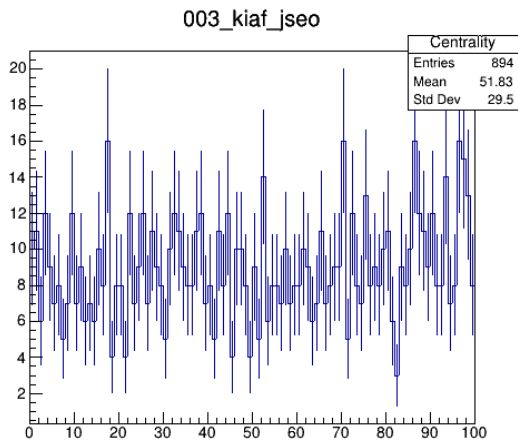
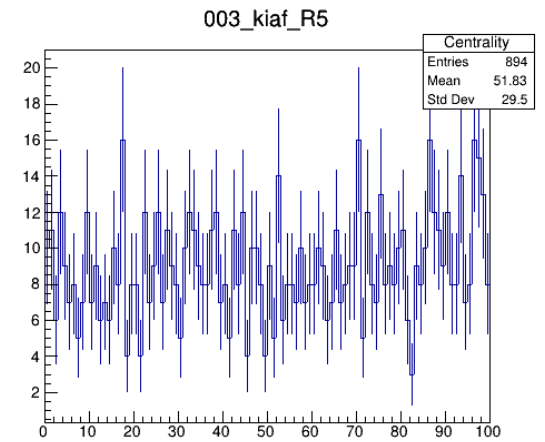
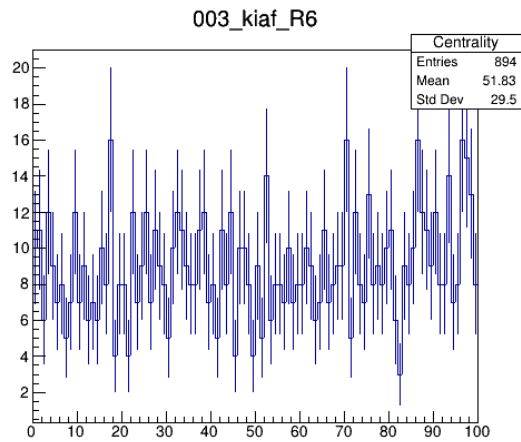
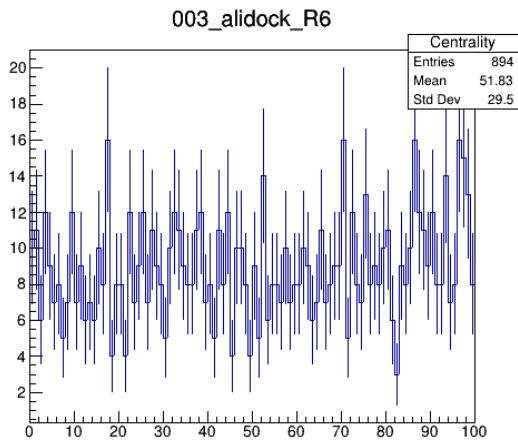
**LAST SLIDE**

## Backup

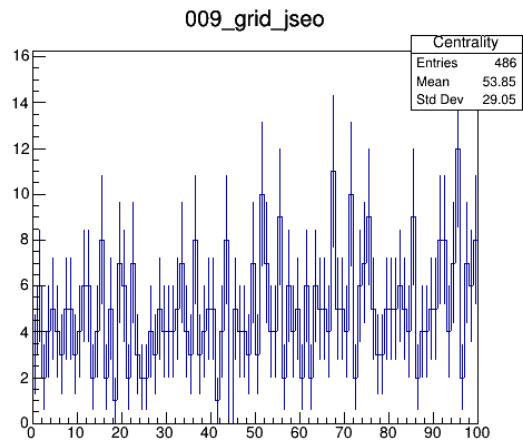
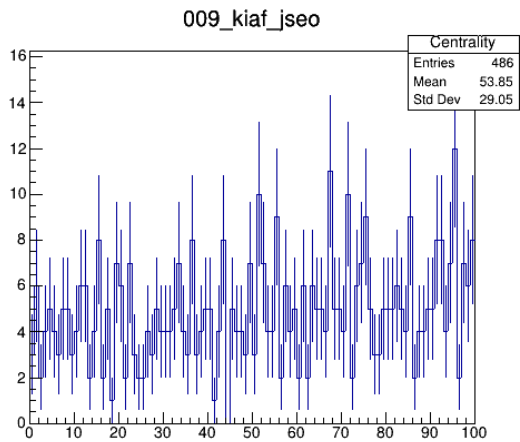
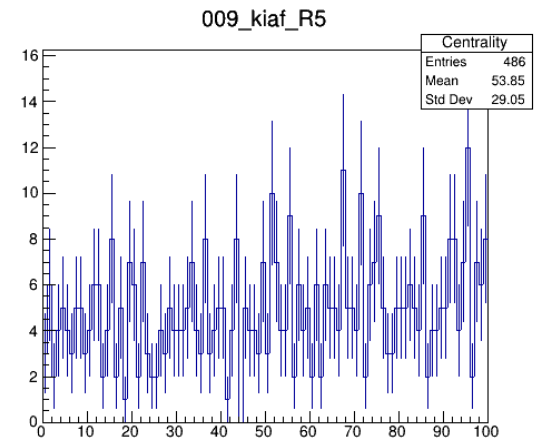
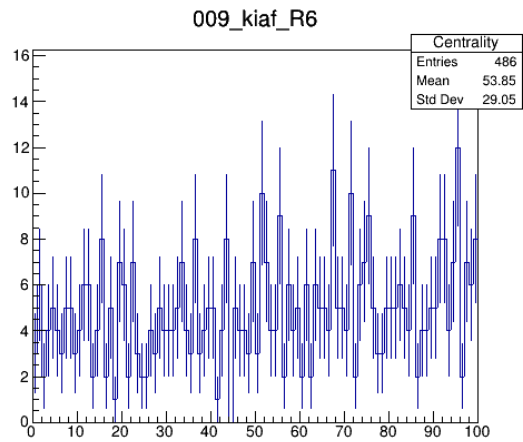
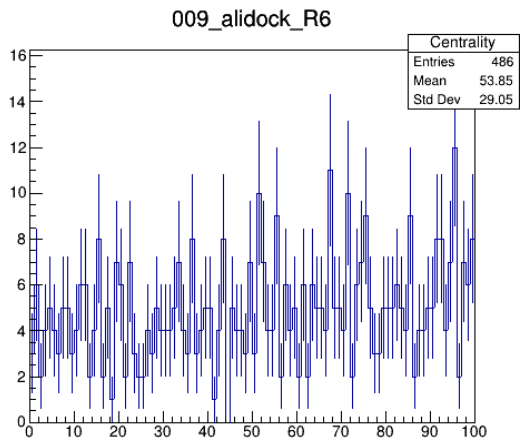
Quote from VOM percentile studies (by B. Volkel, D2H, June 26)



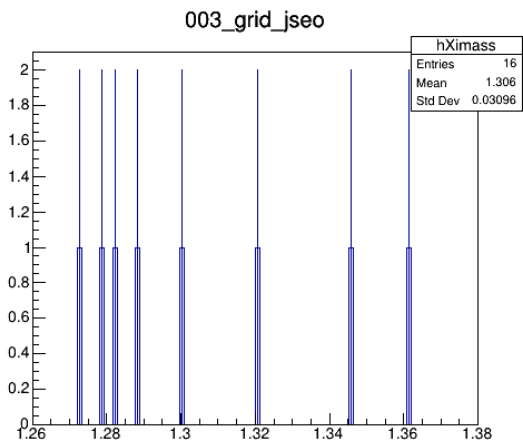
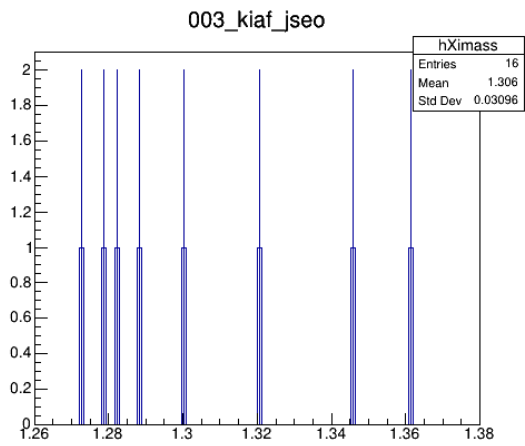
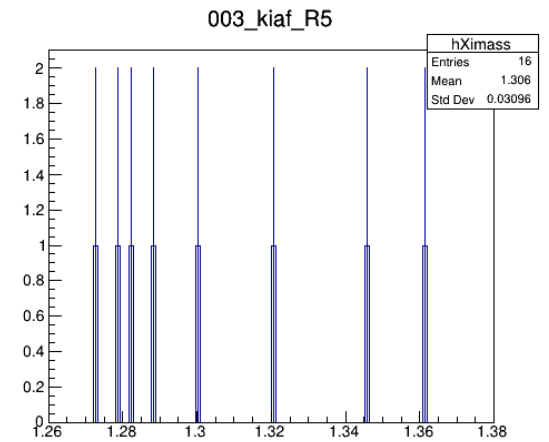
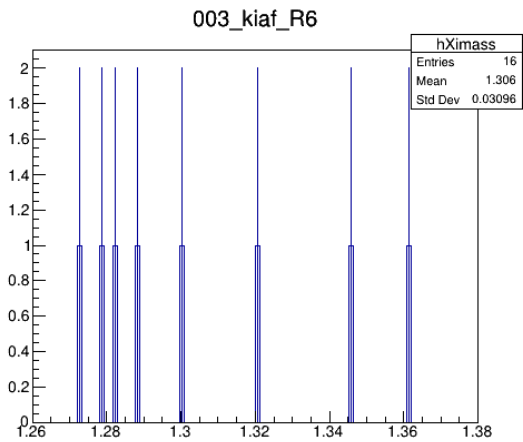
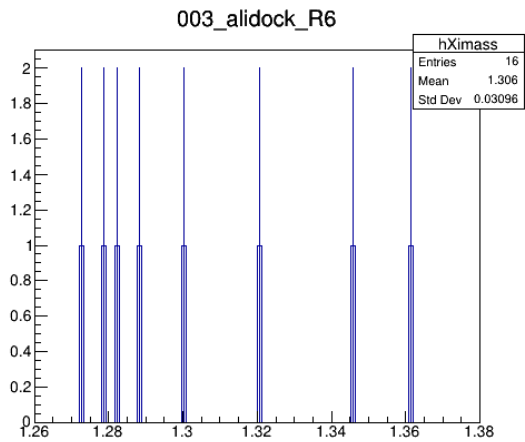
# Backup Centrality, segment 3



# Backup Centrality, segment 9



# Backup Xi mass, segment 3





# Backup Xi mass, segment 9

