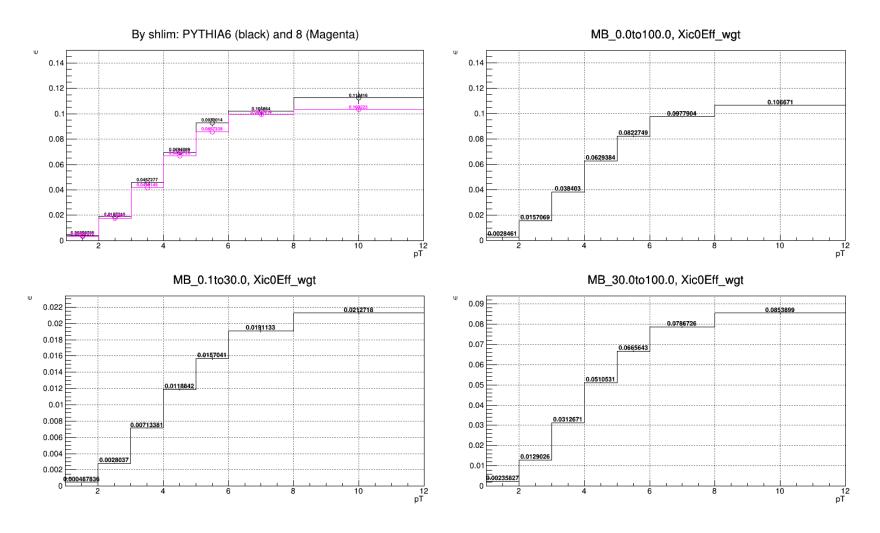
### **Status** Weekly $\Xi_c^0$ analysis meeting, Jan. 28, 2021

#### Status

- Working with Lego Train output
  - a. Data trains are finished: year 16, 17, and 18 (\* AOD208 processed NOT AOD234?)
  - b. MC trains have minor problems
    - b-1. MC2016 never ends: stuck in status "Train run: All jobs submitted" (submitted in Jan. 20)
    - b-2. Low B-field runs included in MC2017: Jinjoo resubmitted the job, for now I discard events in those runs
- Reviewing analysis flow and parameters
  - a. To clarify, let
    - a-1. 1st production: get ROOT output by using AliAnalysisTaskSemiLeptonic... in Grid/LT
    - a-2. 2<sup>nd</sup> production: get ROOT output for later analysis
    - a-3. Analysis: uses histograms from 2<sup>nd</sup> production
  - b. Trigger + Multiplicity setups:
    - \* Currently using all multiplicity percentiles from V0, according to Dr. Beomkyu Kim's comment (less bias)
    - b-1. MB\_0to100, MB\_0.1to30, and MB\_30to100 2<sup>nd</sup> production results look fine
    - b-2. HMV0 0to1 (Cristina suggested 0 0.1) empty distribution after bottom correction, under debugging
    - b-3. HMSPD\_0to0.1
  - c. Hard-coded parameters still need to be studied, especially for compatibility among setups

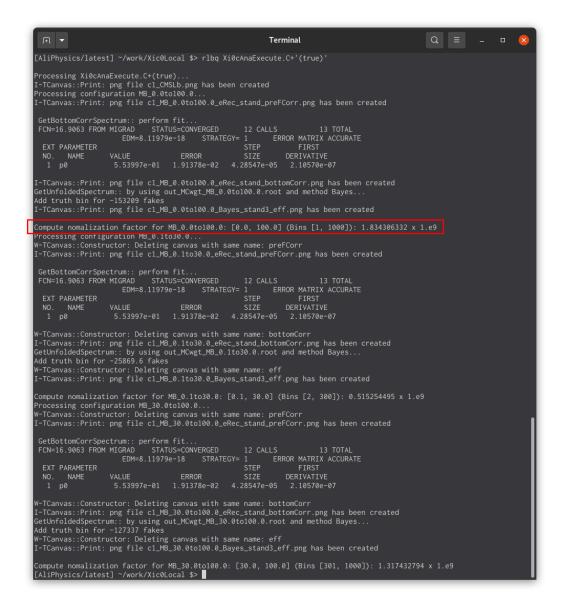
# **Sanity check** Efficiency, MB



Results by Prof. Lim ↔ Results by new train output (MC2016 missing):

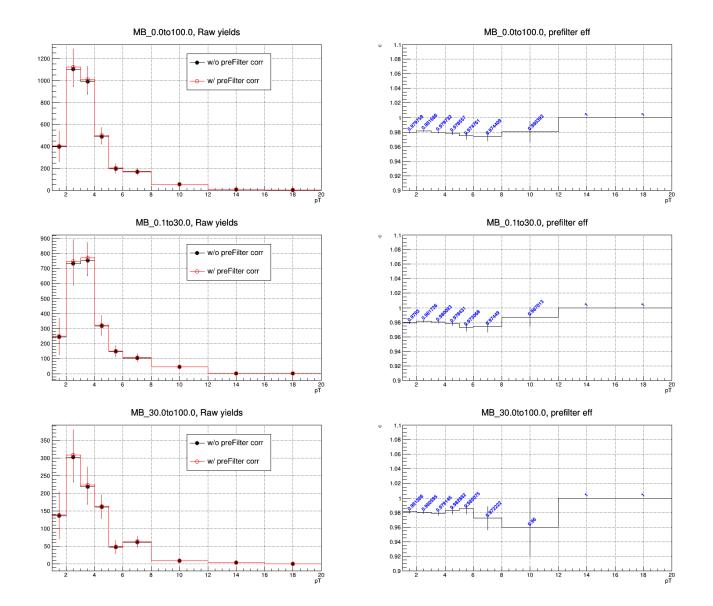
NOT exactly same, but overall tendency matches

### **Sanity check** # of events processed in MB (data)

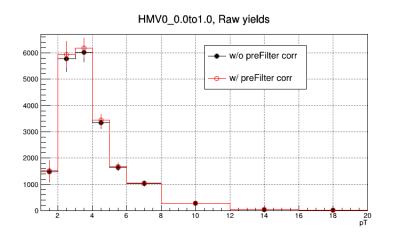


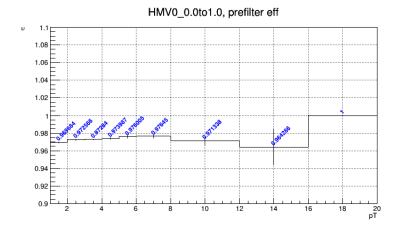
- Previous # of events for normalization
  - a. I believe this is MB + goodzvtx
  - b. Found in analysis macro by Jinjoo:
    - 1.88554e+09

## **Backup** Raw yields, MB by multiplicity percentile, prefilter correction

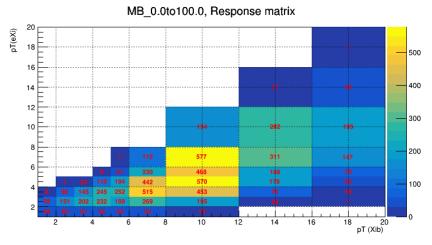


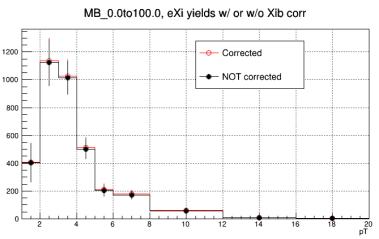
# **Backup** Raw yields, HMV0, prefilter correction

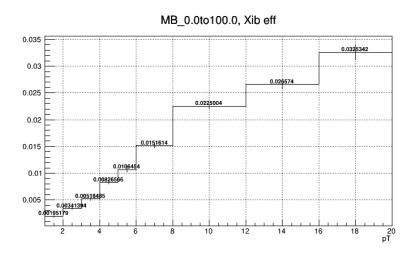


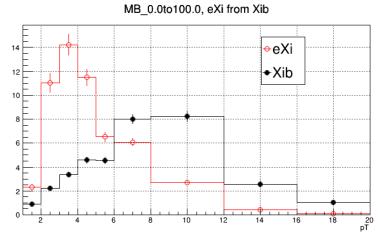


# **Backup** MB, bottom correction, 0 - 100

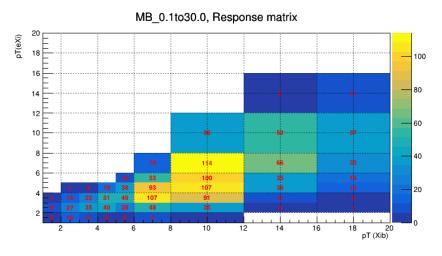


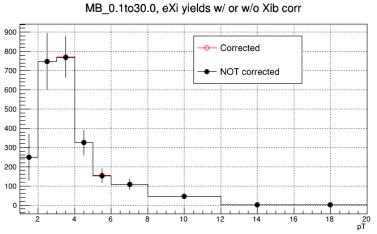


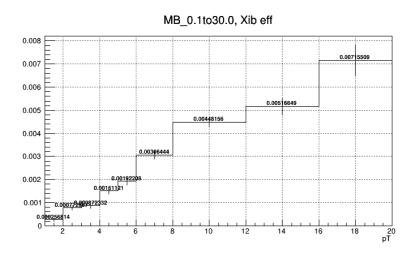


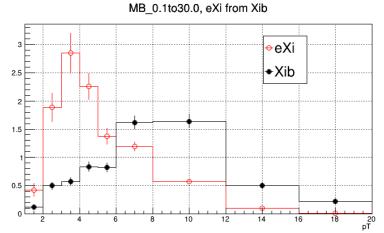


# **Backup** MB, bottom correction, 0.1 - 30

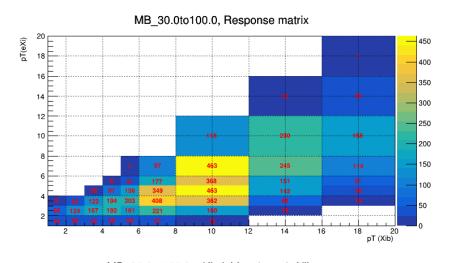


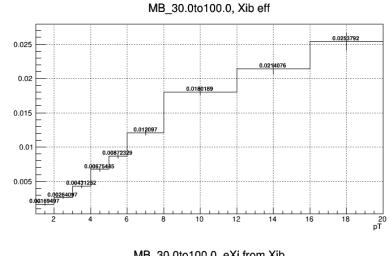


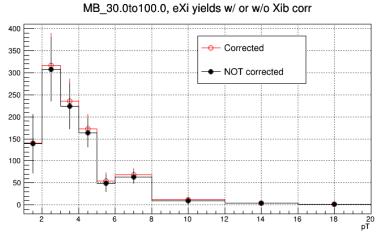


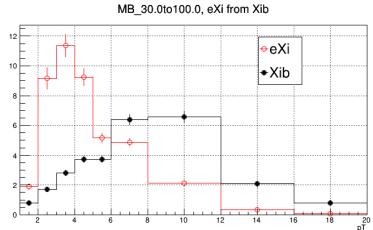


# **Backup** MB, bottom correction, 30 - 100









# **Backup** HMV0, bottom correction, 0 - 1

