

# Status Weekly $\Xi_c^0$ analysis meeting, Aug. 27, 2020

- **Current status**

- [My job assignment status cleaned up](#):  
now I can solely focus on this analysis
- [Playing w/ Jinjoo's code](#)
  - Currently reading/checking macros after analysis task code
  - I'll try to produce minBias separated by multiplicity two percentiles asap
- [AOD info in DPG webpage](#)
  - \* [https://twiki.cern.ch/twiki/bin/view/ALICE/AODsets#AOD\\_production\\_info](https://twiki.cern.ch/twiki/bin/view/ALICE/AODsets#AOD_production_info)
  - a. I cannot find specific AODs produced for high multiplicity triggers
  - b. The version of AODs of interest for data (RUN2 p-p @ 13 TeV) is always the same: AOD208
  - c. It looks I should gather HM triggered events from same AODs Jinjoo used so far
  - d. Did basic crosscheck by using:
    - Info in DPG webpage
    - Run info in analysis note
    - Run info in analysis code ( from arrays in Jinjoo's *run.C* )

# Run info crosscheck 2016

2016				
<del>LHC16t (5 runs)</del>	<del>p-Pb@5TeV</del>	<del>pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD</del>	<del>AOD/AOD190 AOD191(muon_pass2)</del>	<del>(267161 – 267166)</del>
<del>LHC16s (25 runs)</del>	<del>Pb-p@8.16TeV</del>	<del>pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD</del>	<del>AOD/AOD190 AOD191(muon_pass2/3)</del>	<del>(266405 – 267110)</del>
<del>LHC16r (53 runs)</del>	<del>p-Pb@8.16TeV</del>	<del>pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD</del>	<del>AOD/AOD190 AOD191(muon_pass2)</del>	<del>(265589 – 266318)</del>
<del>LHC16q (34 runs)</del>	<del>p-Pb@5TeV</del>	<del>pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD</del>	<del>AOD/AOD190 AOD191(muon_pass2)</del>	<del>(265305 – 265525)</del>
LHC16p (42 runs)	pp@13TeV	pass1	AOD, AOD208*	(264076 – 264347)
LHC16o (117 runs)	pp@13TeV	pass1	AOD, AOD208*	(262395 – 264035)
LHC16l (89/87 runs)	pp@13TeV	pass1/pass2	AOD(pass1), AOD208*(pass2)	(258883 – 260014)
LHC16k (213/212 runs)	pp@13TeV	pass1/pass2	AOD(pass1), AOD208*(pass2)	(256504 – 258537)
LHC16j (57 runs)	pp@13TeV	pass1	AOD, AOD208*	(256146 – 256420)
LHC16i (21 runs)	pp@13TeV	pass1	AOD, AOD208*	(254378 – 255469)
LHC16h (91 runs)	pp@13TeV	pass1	AOD, AOD208*	(254378 – 255469)
LHC16g (20 runs)	pp@13TeV	pass1	AOD, AOD208*	(254124 – 254332)
LHC16f (24 runs)	pp@13TeV (full / low-B)	pass1	AOD, AOD208*, AOD212*	(253659 – 253978)
LHC16e (22 runs)	pp@13TeV	pass1	AOD, AOD208*	(252603 – 253591)
LHC16d (26 runs)	pp@13TeV	pass1	AOD, AOD208*	(252235 – 252375)

– Concerns:

- a. LHC16f, LHC16i: AODs exist but not used in the analysis, result of run QA?
- b. LHC16k: runs **257892, 257028, 257026, 257021** exists in the note, but missing in the code

# Run info crosscheck 2018

Period	Collision System	Pass	AOD Version	Run No. Range
<b>2018</b>				
<del>LHC18r (100 runs)</del>	<del>Pb-Pb@5.02TeV</del>	<del>pass1</del>	<del>AOD, AOD216/225(muon pass3)</del>	<del>(296690 – 297624)</del>
<del>LHC18q (144 runs)</del>	<del>Pb-Pb@5.02TeV</del>	<del>pass1</del>	<del>AOD, AOD225(muon pass3)</del>	<del>(295581 – 296623)</del>
LHC18p (84 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(294009 – 294925)
LHC18o (48 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(293368 – 293898)
LHC18n (2 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(293357 – 293359)
LHC18m (277 runs)	pp@13TeV	pass1_withTRDtracking	AOD, <a href="#">AOD208*</a>	(290222 – 292839)
LHC18l (92 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(289240 – 289971)
LHC18k (12 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(289165 – 289201)
LHC18j (1 run)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(288943 – 288943)
LHC18i (10 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(288861 – 288909)
LHC18h (2 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(288804 – 288806)
LHC18g (11 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(288619 – 288750)
LHC18f (78 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(287000 – 287977)
LHC18e (46 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(286380 – 286937)
LHC18d (48 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(285978 – 286350)
<del>LHC18c (53 runs)</del>	<del>pp@13TeV (low field)</del>	<del>pass1_FAST pass1_CENT pass1_CENT_woSDD</del>	<del>AOD, <a href="#">AOD212*</a></del>	<del>(285466 – 285958)</del>
LHC18b (28 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(285008 – 285447)

– **Concerns:** LHC18m

- a. Entire # of runs in LHC18m is 239 in note, but only 134 runs are being used in code, why?
- b. LHC18m1 [292839, 291624] (115), LHC18m2 [290467, 290323] (19)

\* in code, array contains 242 runs but only partially invoked

# Backup 2017

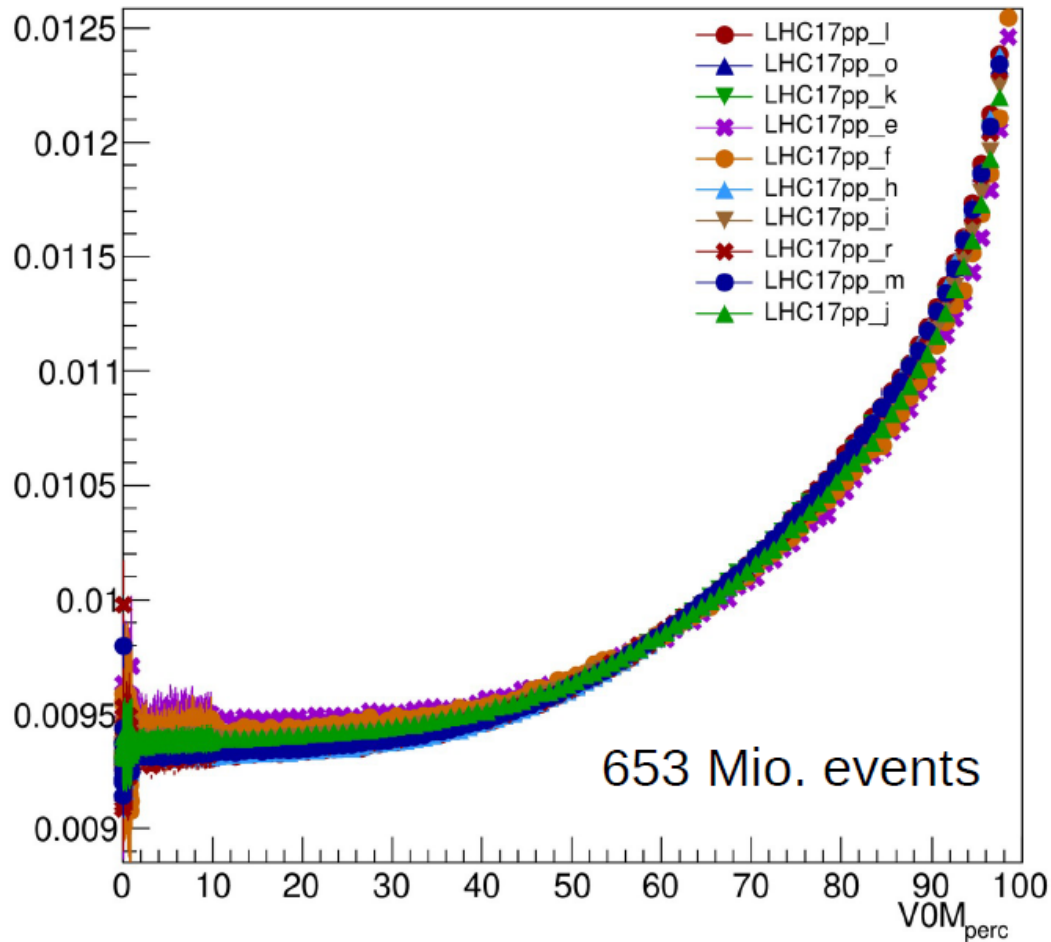
2017				
<b>LHC17r</b> (30 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(282528 – 282704)
<del>LHC17q</del> (15 runs)	pp@5.02TeV	pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD	<del>AOD, <a href="#">AOD208*</a></del>	<del>(282365 – 282441)</del>
<del>LHC17p</del> (42 runs)	pp@5.02TeV	pass1_FAST pass1_CENT_wSDD pass1_CENT_woSDD	<del>AOD, <a href="#">AOD208*</a></del>	<del>(282008 – 282343)</del>
<b>LHC17o</b> (177 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(280282 – 281961)
<del>LHC17n</del> (2 runs)	<del>Xe-Xe@5.44TeV</del>	<del>pass1</del>	<del>AOD/AOD227</del>	<del>(280234 – 280235)</del>
<b>LHC17m</b> (109 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(278914 – 280140)
<b>LHC17l</b> (133 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(276551 – 278216)
<b>LHC17k</b> (135 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(274690 – 276508)
<b>LHC17j</b> (13 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(274593 – 274671)
<b>LHC17i</b> (65 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(273591 – 274442)
<b>LHC17h</b> (123 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(271868 – 273103)
<del>LHC17g</del> (37 runs)	<del>pp@13TeV (low B field)</del>	<del>pass1</del>	<del>AOD, <a href="#">AOD212*</a></del>	<del>(270882 – 271777)</del>
<b>LHC17f</b> (5 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(270854 – 270865)
<b>LHC17e</b> (6 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(270822 – 270830)
<b>LHC17c</b> (12 runs)	pp@13TeV	pass1	AOD, <a href="#">AOD208*</a>	(270531 – 270667)

## Backup Calling LHC18m in the code

```
if (foption.Contains("LHC18m1")){
    plugin->SetGridDataDir("/alice/data/2018/LHC18m");
    for (int i=0; i<115; i++) plugin->AddRunNumber(LHC18mRuns[i]);
    plugin->SetDataPattern("/pass1_withTRDtracking/AOD208/*/AliAOD.root");
}
if (foption.Contains("LHC18m2")){
    plugin->SetGridDataDir("/alice/data/2018/LHC18m");
    for (int i=223; i<242; i++) plugin->AddRunNumber(LHC18mRuns[i]);
    plugin->SetDataPattern("/pass1_withTRDtracking/AOD208/*/AliAOD.root");
}
```

## Backup

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



## Backup Message from Cristina

*Dear MinJung,*

*we have just started to have a look at the HMV0 triggers data for the Lc and D0 analyses vs multiplicity.*

*In the multiplicity range 0-0.1%, that should be the one suggested for the V0 High multiplicity events, we have 500 M of events.*

*If we use the SPD HM triggered data, the number of events is 100 M, so we suggest to use the HMV0 data, in case.*

*As Fabrizio said, you could start to have a look to the MB samples, and perform the analysis vs multiplicity using that sample:*

*for the Lc and D0 analysis, we are currently investigating 0.1-30% and 30-100% with MB triggered data, using the V0M percentiles.*

*In the multiplicity class 30-100% we have ~700M of events, while I don't have the information relative to the range 0.1-30%.*

*cheers,  
Cristina*