

ALICE



Sphericity analysis using V0M estimator

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ACO
meeting

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Outline

comments on:

- Analysis from ESD MC
- Analysis of $\langle p_T \rangle$ for V0M in S_0 bins

- Conclusions.

- Analysis from ESD MC LHC15g3a3 (Pythia8 Monash)
- For MC the way to proceed for estimators is a little bit different, exchanging emails with David
- Snippets in run.C

```
AliMultSelectionTask *task = AddTaskMultSelection();
task->SetAddInfo(kTRUE);
task->SetUseDefaultCalib(kTRUE); // data *
task->SetUseDefaultMCCalib(kTRUE); // MC *
task->SetAlternateOADBforEstimators("LHC15f"); **
```

* For calibrated runs see:

**This gets the V0M percentil boundaries from data this avoid some issue errors like:

```
E-TFile::TFile: file /Users/hectorbellomartinezImaclab/alice/aliphysics/vAN-20160418/inst/OADB/COMMON/MULTIPLICITY/data/OADB-LHC15g3a3.root does not exist
F-AliMultSelectionTask::SetupRun: Couldn't find requested alternate calibration! Quitting!
```

- Snippets to get V0M percentil (as usual)

```
AliMultSelection *MultSelection = (AliMultSelection*) lEvent->FindListObject("MultSelection")
Float_t lMultiplicityPercentile = MultSelection->GetMultiplicityPercentile("V0M");
```

Multiplicity Task in:

Hèctor Bello Martinez

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\$ALICE_PHYSICS/OADB/COMMON/MULTIPLICITY/AliMultSelectionTask.cxx

\$ALICE_PHYSICS/OADB/COMMON/MULTIPLICITY/macros/AddTaskMultSelection.

Conclusions

- To do list

Repet the study done for sphericity comparing V0M and REF estimator

Get p_T and $\langle p_T \rangle$ for V0M and ref for S_0 bins

Thank you!