

# R24 Ntuple status

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## Test AOD of new reconstruction setup



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Monday, Ju

To: atlas-upgrade-physics-studies (People participating in ATLAS upgrade physics studies); Cc: Ariel Schwartzman

Dear all,

We have a new AOD recently produced with the latest reconstruction setup. It would be great to confirm that things look reasonable and that no showstopper is found.

`mc21_14TeV.601229.PhyPy8EG_A14_ttbar_hdamp258p75_SingleLep.recon.AOD.e8481_s4290_r15700`

## Used sample

This is mainly aimed at CP contacts, but anyone that is running and upgrade study is more than welcome to take a look. Please get in touch with us if you do (whether to warn of issues or simply to confirm that everything looks ok). We want to proceed with a larger production next week, so we will be collecting possible issues during this week only.

We also take the opportunity to remind you that we also have a test DAOD\_JETM42 sample that we are looking to validate as a viable upgrade-specific derivation. If you are looking to run upgrade studies on DAOD, please take a look at this sample and send us feedback!

<https://cernbox.cern.ch/s/vS1oMBbd20UOvpk>

Best regards,

Ariel & Hector

- ☑ \*Br 6 :TruthVtx\_x : vector \*
- ☑ \*Br 7 :TruthVtx\_y : vector \*
- ☑ \*Br 8 :TruthVtx\_z : vector \*
- ☑ \*Br 9 :TruthVtx\_t : vector \*
- ☑ \*Br 10 :TruthVtx\_isHS : vector \*
- ☑ \*Br 11 :TruthVtx\_isPU : vector \*
- ☑ \*Br 12 :RecoVtx\_x : vector \*
- ☑ \*Br 13 :RecoVtx\_y : vector \*
- ☑ \*Br 14 :RecoVtx\_z : vector \*
- ☑ \*Br 15 :RecoVtx\_isHS : vector \*
- ☑ \*Br 16 :RecoVtx\_isPU : vector \*
- ☑ \*Br 17 :TruthPart\_pt : vector \*
- ☑ \*Br 18 :TruthPart\_eta : vector \*
- ☑ \*Br 19 :TruthPart\_phi : vector \*
- ☑ \*Br 20 :TruthPart\_m : vector \*
- ☑ \*Br 21 :TruthPart\_charge : vector \*
- ☑ \*Br 22 :TruthPart\_pdgId : vector \*
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- ☑ \*Br 24 :Cells\_eta : vector \*
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- ☑ \*Br 28 :Cells\_z : vector \*
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- ☑ \*Br 31 :Cells\_layer : vector \*
- ☑ \*Br 32 :Cells\_quality : vector \*
- ☑ \*Br 33 :Cells\_provenance : vector \*
- ☐ \*Br 34 :Cells\_totalNoise : vector \*
- ☐ \*Br 35 :Cells\_electronicNoise : vector \*
- ☑ \*Br 36 :Cells\_detName : vector \*
- ☑ \*Br 37 :Cells\_sampling : vector \*
- ☑ \*Br 38 :Cells\_badcell : vector \*
- ☑ \*Br 39 :Cells\_IsEM : vector \*
- ☑ \*Br 40 :Cells\_IsEM\_Barrel : vector \*
- ☑ \*Br 41 :Cells\_IsEM\_EndCap : vector \*
- ☑ \*Br 42 :Cells\_IsFCAL : vector \*
- ☑ \*Br 43 :Cells\_IsHEC : vector \*
- ☑ \*Br 44 :Cells\_IsTile : vector \*

**Will work on  
later today/tomorrow**

- \*Br 45 :AntiKt4EMTopoJets\_pt : vector \*
- \*Br 46 :AntiKt4EMTopoJets\_eta : vector \*
- \*Br 47 :AntiKt4EMTopoJets\_phi : vector \*
- \*Br 48 :AntiKt4EMTopoJets\_m : vector \*
- \*Br 49 :AntiKt4EMTopoJets\_nConstituents : vector \*
- \*Br 50 :AntiKt4EMTopoJets\_constituentPt : vector<vector > \*
- \*Br 51 :AntiKt4EMTopoJets\_constituentEta : vector<vector > \*
- \*Br 52 :AntiKt4EMTopoJets\_constituentPhi : vector<vector > \*
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- \*Br 55 :AntiKt4EMPFlowJets\_phi : vector \*
- ::  \*Br 56 :AntiKt4EMPFlowJets\_m : vector \*
- \*Br 57 :AntiKt4EMPFlowJets\_nConstituents : vector \*
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- \*Br 63 :AntiKt4TruthWZJets\_phi : vector \*
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- \*Br 66 :AntiKt4TruthWZJets\_constituentPt : vector<vector > \*
- \*Br 67 :AntiKt4TruthWZJets\_constituentEta : vector<vector > \*
- \*Br 68 :AntiKt4TruthWZJets\_constituentPhi : vector<vector > \*

**Container does not exist  
Should be easy to add (~1h work) when  
we need**