

# TriggerDecision in CBNTAA

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- There is a CBNTAA block for TriggerDecision
- Made by `TrigDecisionMaker/CBNTAA_TriggerDecision` (`public CBNT_AthenaAwareBase`)
  - Runs after the Steering and TriggerDecisionMaker
  - Retrieves the trigger configuration in the same way as TriggerDecisionMaker
  - Reads TriggerDecision and extracts results from it to put in the CBNT
  - It should run by default when writing a CBNTAA (not for CBNT, sorry)
- Little space taken: stores results for each trigger level and signature as **bool**
- Can do e.g.:
  - `MyTTree->Scan("EF_tau10i")`
    - to see which events passed this signature
  - `MyTTree->Draw("EF_tau10i","L2_e25i")`
    - to plot the number of events which passed EF\_tau10i AND L2\_e25i
  - `MyTTree->Draw("MET","L2_tau15i")`
    - to plot the missing transverse energy for events which pass L2\_tau15i
- Added to TriggerDecision Wiki:  
<https://uimon.cern.ch/twiki/bin/view/Atlas/TriggerDecision>

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```
* ..... *
*Br 452 :TriggerDecision : Level1/b *
*Entries :      10 : Total Size=      683 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
*Br 453 :TriggerDecision : Level2/b *
*Entries :      10 : Total Size=      683 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
*Br 454 :TriggerDecision : EvFilter/b *
*Entries :      10 : Total Size=      689 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
*Br 456 :TriggerDecision : L1_2EM15/b *
*Entries :      10 : Total Size=      689 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
...
* ..... *
*Br 492 :TriggerDecision : L2_tau15/b *
*Entries :      10 : Total Size=      689 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
*Br 493 :TriggerDecision : L2_tau15i/b *
*Entries :      10 : Total Size=      692 bytes One basket in memory *
*Baskets :       0 : Basket Size=    32000 bytes Compression= 1.00 *
* ..... *
```