Trigger for AD_JJ

Lowest un-prescaled large-R jet triggers Run-3

Large-R
HLT_j460_a10sd_cssk_pf_jes_ftf_preselj225_L1J100
HLT_j460_a10sd_cssk_pf_jes_ftf_preselj225_L1SC111-CJ15
HLT_j460_a10t_lcw_jes_L1J100
HLT_j460_a10t_lcw_jes_L1SC111-CJ15
HLT_j460_a10r_L1J100
HLT_j460_a10r_L1SC111-CJ15
HLT_j460_a10_lcw_subjes_L1J100
HLT_j460_a10_lcw_subjes_L1SC111-CJ15

Large-R with mass cut
HLT_j420_35smcINF_a10sd_cssk_pf_jes_ftf_preselj225_L1J100
HLT_j420_35smcINF_a10sd_cssk_pf_jes_ftf_preselj225_L1SC111-CJ15
HLT_j420_35smcINF_a10t_lcw_jes_L1J100
HLT_j420_35smcINF_a10t_lcw_jes_L1SC111-CJ15

H_T
HLT_j0_HT1000_L1HT190-J15s5pETA21
HLT_j0_HT1000_L1J100

HLT_j0_HT1000_pf_ftf_preselcHT450_L1HT190-J15s5pETA21
From Run XXX: HLT_j0_HT940_pf_ftf_preselcHT450_L1HT190-J15s5pETA21
HLT_j0_HT1000_pf_ftf_preselj180_L1HT190-J15s5pETA21
From Run XXX: HLT_j0_HT940_pf_ftf_preselj180_L1HT190-J15s5pETA21

HLT_j0_HT1000_pf_ftf_preselj180_L1J100

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From Run 451587: HLT_4j110_pf_ftf_presel4j85_L13J50
HLT_4j120_L13J50

HLT_5j70c_pf_ftf_presel5c50_L14J15
From Run 451587: HLT_5j65c_pf_ftf_presel5c55_L14J15

HLT_5j85_pf_ftf_presel5j50_L14J15
From Run 451587: HLT_5j80_pf_ftf_presel5j50_L14J15
From Run 451587: HLT_5j80_pf_ftf_presel5j55_L14J15

HLT_6j35c_020jvt_pf_ftf_presel6c25_L14J15+
HLT_6j55c_pf_ftf_presel6j40_L14J15
HLT_6j70_pf_ftf_presel6j40_L14J15
HLT_7j45_pf_ftf_presel7j30_L14J15
HLT_10j40_pf_ftf_presel7j30_L14J15

Large-R with mass cut
HLT_2j330_35smcINF_a10sd_cssk_pf_jes_ftf_presel2j225_L1J100
HLT_2j330_35smcINF_a10sd_cssk_pf_jes_ftf_presel2j225_L1SC111-CJ15
HLT_2j330_35smcINF_a10t_lcw_jes_L1J100
HLT_2j330_35smcINF_a10t_lcw_jes_L1SC111-CJ15
HLT_j360_60smcINF_j360_a10sd_cssk_pf_jes_ftf_presel2j225_L1SC111-CJ
HLT_j360_60smcINF_j360_a10t_lcw_jes_L1SC111-CJ15
HLT_j370_35smcINF_j370_a10sd_cssk_pf_jes_ftf_presel2j225_L1SC111-CJ
HLT_j370_35smcINF_j370_a10t_lcw_jes_L1SC111-CJ15
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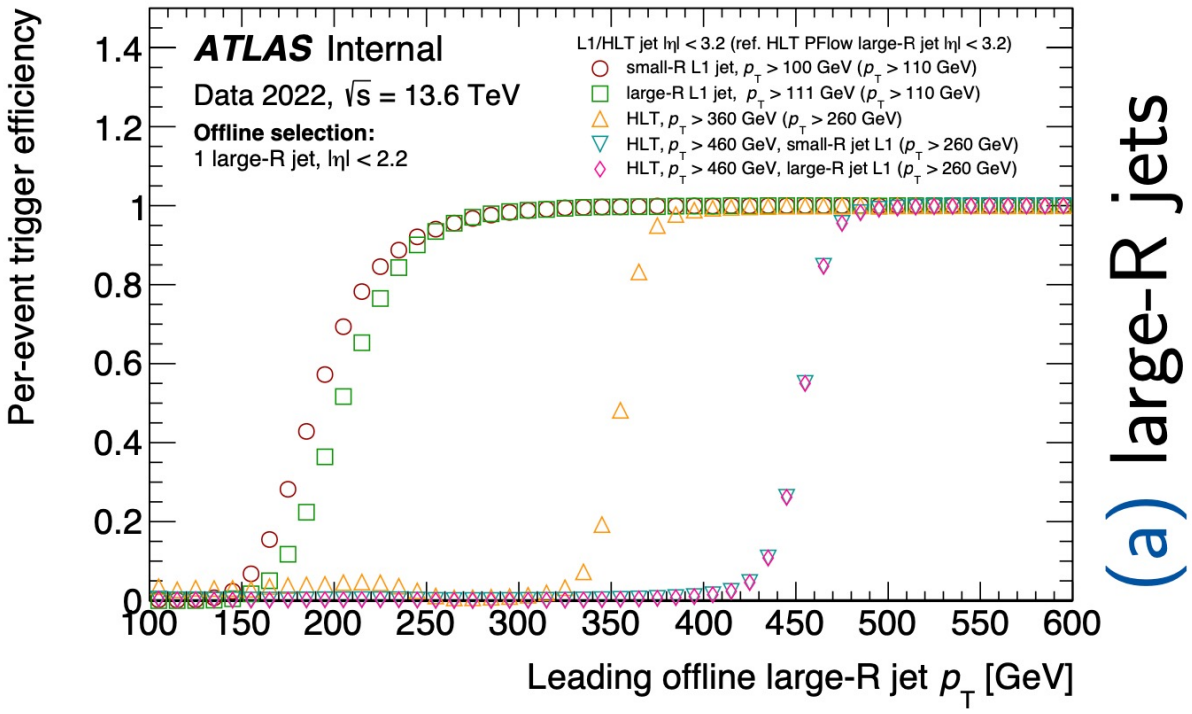
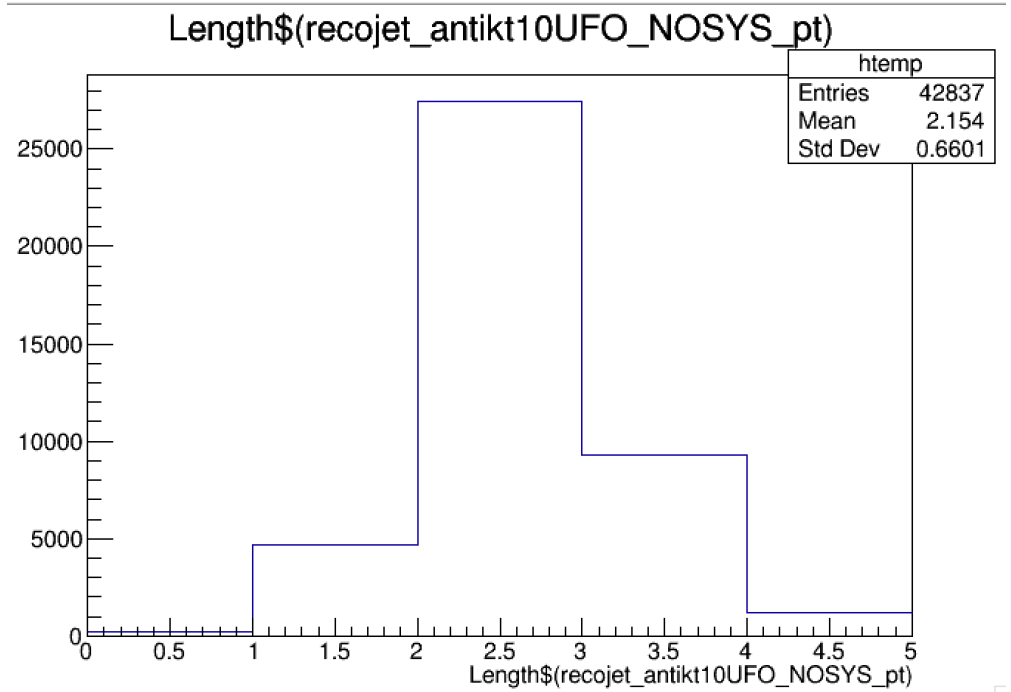
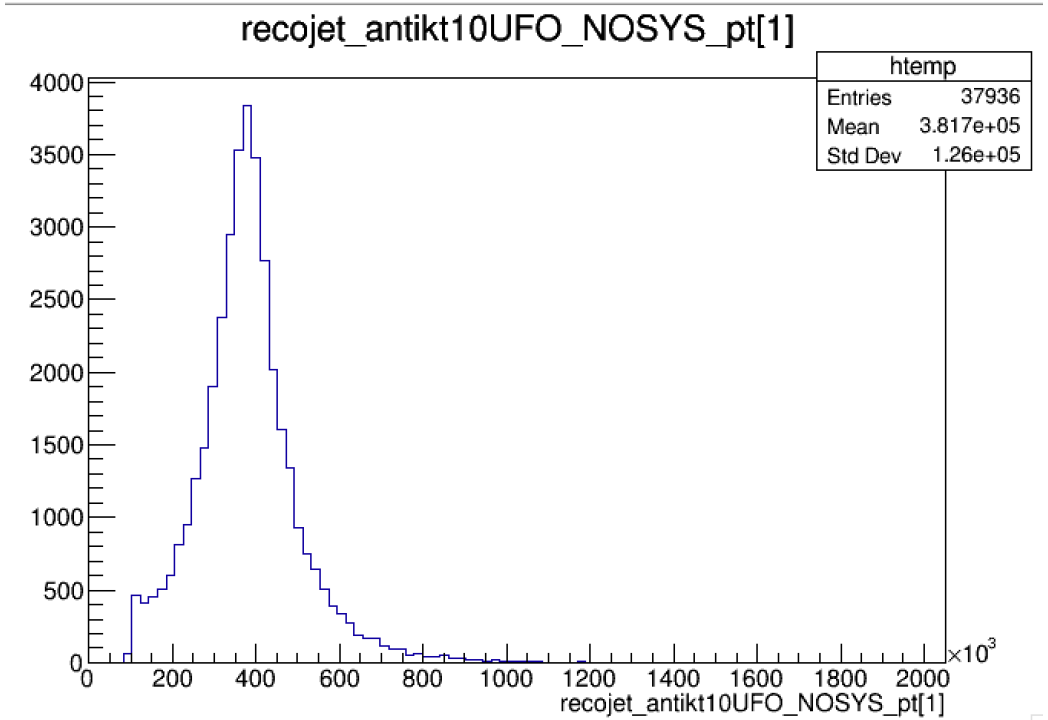
Plots from ATL-COM-DAQ-2022-133

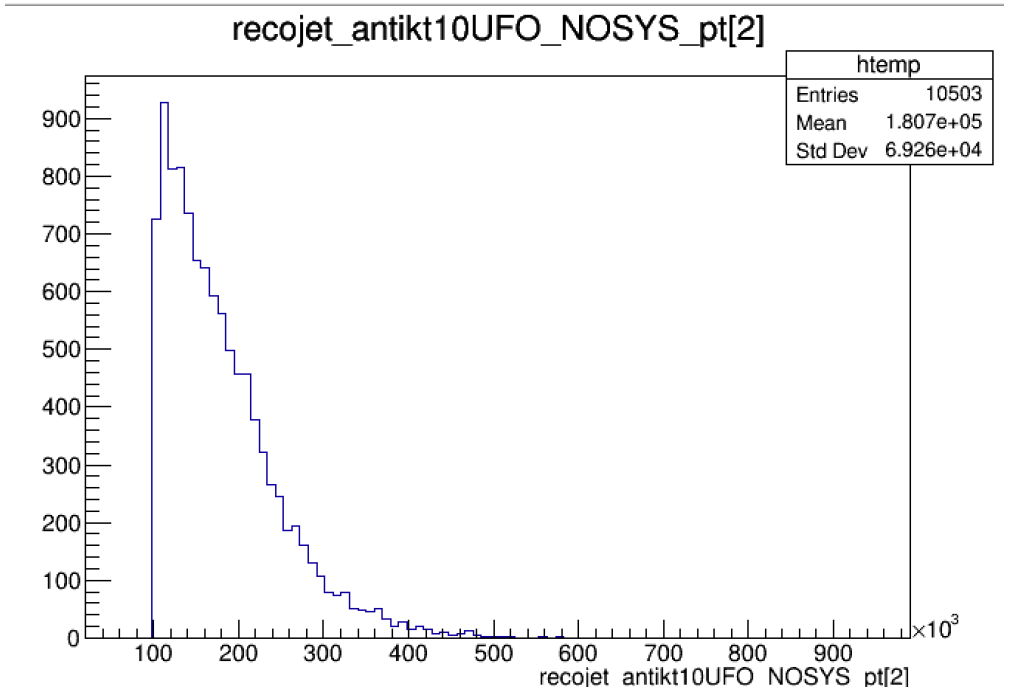


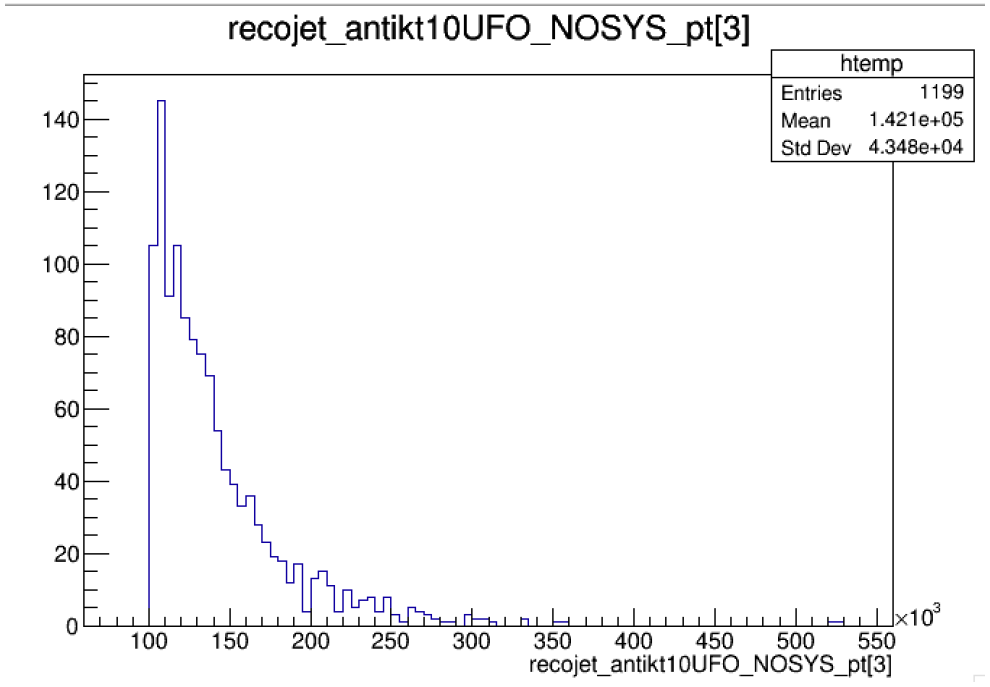
run 3 LLJ1 DxAOD (DxAOD PHYS + constituents) based on EasyJet framework.

```
### trigger skimming
TriggersList = [
    ### baseline run-2
    'HLT_j360_a10_lcw_sub_L1J100',
    'HLT_j420_a10_lcw_L1J100',
    'HLT_j460_a10t_lcw_jes_L1J100',
    ### new run-3
    'HLT_j460_a10sd_cssk_pf_jes_ftf_preselj225_L1J100',
    'HLT_j460_a10_lcw_subjes_L1J100',
    'HLT_j460_a10r_L1J100',
    ### new run-3 mass cut
    'HLT_j420_35smcINF_a10sd_cssk_pf_jes_ftf_preselj225_L1J100',
    'HLT_j420_35smcINF_a10t_lcw_jes_L1J100',
]
```


Length$(recojet_antikt10UFO_NOSYS_pt)
htemp
Entries 42837
Mean 2.154
Std Dev 0.6601
Length$(recojet_antikt10UFO_NOSYS_pt)


recojet_antikt10UFO_NOSYS_pt[1]
htemp
Entries 37936
Mean 3.817e+05
Std Dev 1.26e+05
×10^3
recojet_antikt10UFO_NOSYS_pt[1]


recojet_antikt10UFO_NOSYS_pt[2]
htemp
Entries 10503
Mean 1.807e+05
Std Dev 6.926e+04
×10^3
recojet_antikt10UFO_NOSYS_pt[2]


recojet_antikt10UFO_NOSYS_pt[3]
htemp
Entries 1199
Mean 1.421e+05
Std Dev 4.348e+04
×10^3
recojet_antikt10UFO_NOSYS_pt[3]