#### Content

Collection	Description
CaloMET	phi
ChsMET	raw chs PF MET phi
CorrT1METJet	Additional low-pt jets for Type-1 MET re-correction
DeepMETResolutionTune	DeepmET ResolutionTune phi
DeepMETResponseTune	DeepMET ResponseTune phi
Electron	slimmedElectrons after basic selection (pt > 5 )
FatJet	slimmedJetsAK8, i.e. ak8 fat jets for boosted analysis
Flag	Bad ECAL calib flag (updated xtal list)
FsrPhoton	Final state radiation photons emitted by muons
GenDressedLepton	Dressed leptons from Rivet-based ParticleLevelProducer
GenIsolatedPhoton	Isolated photons from Rivet-based ParticleLevelProducer
GenJet	slimmedGenJets, i.e. ak4 Jets made with visible genparticles
GenJetAK8	slimmedGenJetsAK8, i.e. ak8 Jets made with visible genparticles
GenMET	phi
GenPart	interesting gen particles
GenVisTau	gen hadronic taus
Generator	MC generation binning value
HLT	Trigger/flag bit (process: HLT)
HLTriggerFinalPath	Trigger/flag bit (process: HLT)
<b>HLTriggerFirstPath</b>	Trigger/flag bit (process: HLT)
HTXS	pt of the Higgs boson as identified in HTXS
IsoTrack	isolated tracks after basic selection (((pt>5 && (abs(pdgId) == 11 $\mid\mid$ abs(pdgId) == 13)) $\mid\mid$ pt > 10) && (abs(pdgId) < 15 $\mid\mid$ abs(eta) < 2.5) && abs(dxy) < 0.2 && abs(dz) < 0.1 && ((pfIsolationDR03().chargedHadronIso < 5 && pt < 25) $\mid\mid$ pfIsolationDR03().chargedHadronIso/pt < 0.2)) and lepton veto
Jet	slimmedJets, i.e. ak4 PFJets CHS with JECs applied, after basic selection (pt > 15)
L1	Trigger/flag bit (process: DQM)
L1Reco	Trigger/flag bit (process: RECO)
L1simulation	Trigger/flag bit (process: HLT)
LHE	HT, scalar sum of parton pTs at LHE step
LHEPart	Pt of LHE particles
LHEPdfWeight	
LHEReweightingWeight	
LHEScaleWeight	
LHEWeight	Nominal event weight in the LHE file
MET	Delta (METx_mod-METx) Unclustered Energy Up
Muon	<pre>slimmedMuons after basic selection (pt &gt; 3 &amp;&amp;   (passed('CutBasedIdLoose')    passed('SoftCutBasedId')    passed('SoftMvaId')    passed('CutBasedIdGlobalHighPt')    passed('CutBasedIdTrkHighPt')))</pre>
OtherPV	Z position of other primary vertices, excluding the main PV
PSWeight	PS weights (w_var / w_nominal); [0] is ISR=0.5 FSR=1; [1] is ISR=1 FSR=0.5; [2] is ISR=2 FSR=1; [3] is ISR=1 FSR=2
PV	main primary vertex number of degree of freedom
Photon	slimmedPhotons after basic selection (pt > 5 )
Pileup	the true mean number of the poisson distribution for this event from which the number of interactions each bunch crossing has been sampled
PuppiMET	phi
RawMET	phi
RawPuppiMET	phi
SV	decay length in cm
SoftActivityJet	jets clustered from charged candidates compatible with primary vertex (charge()!=0 && pvAssociationQuality()>=5 && vertexRef().key()==0)
SoftActivityJetHT	scalar sum of soft activity jet pt, pt>1
SoftActivityJetHT10	scalar sum of soft activity jet pt , pt >10
SoftActivityJetHT2	scalar sum of soft activity jet pt, pt >2
SoftActivityJetHT5	scalar sum of soft activity jet pt, pt>5
SoftActivityJetNjets10	number of soft activity jet pt, pt >2
SoftActivityJetNjets2	number of soft activity jet pt, pt >10
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SoftActivityJetNjets5	number of soft activity jet pt, pt >5
SubGenJetAK8	slimmedGenJetsAK8SoftDropSubJets, i.e. subjets of ak8 Jets made with visible genparticles
SubJet	slimmedJetsAK8, i.e. ak8 fat jets for boosted analysis
Tau	slimmedTaus after basic selection (pt > 18 && tauID('decayModeFindingNewDMs') && (tauID('byLooseCombinedIsolationDeltaBetaCorr3Hits')    tauID('byVLooseIsolationMVArun2v1DBoldDMwLT2015')    tauID('byVLooseIsolationMVArun2v1DBnewDMwLT')    tauID('byVLooseIsolationMVArun2v1DBdR03oldDMwLT')    tauID('byVVLooseIsolationMVArun2v1DBoldDMwLT')    tauID('byVVLooseIsolationMVArun2v1DBoldDMwLT2017v2')    tauID('byVVLooseIsolationMVArun2v1DBnewDMwLT2017v2')    tauID('byVVLooseIsolationMVArun2v1DBdR03oldDMwLT2017v2')    tauID('byVVLooseIsolationMVArun2v1DBdR03oldDMwLT2017v2')    tauID('byVVVLooseDeepTau2017v2p1VSjet')))
TKMET	raw track MET phi
TrigObj	pt
btagWeight	b-tag event weight for CSVV2
event	event/l
fixedGridRhoFastjetAll	rho from all PF Candidates, used e.g. for JECs
fixedGridRhoFastjetCentral	rho from all PF Candidates for central region, used e.g. for JECs
fixedGridRhoFastjetCentralCalo	rho from calo towers with  eta  < 2.5, used e.g. egamma PFCluster isolation
fixedGridRhoFastjetCentralChargedPileUp	rho from charged PF Candidates for central region, used e.g. for JECs
fixedGridRhoFastjetCentralNeutral	rho from neutral PF Candidates with  eta  < 2.5, used e.g. for rho corrections of some lepton isolations
genTtbarId	ttbar categorization
genWeight	generator weight
luminosityBlock	luminosityBlock/i
run	run/i

#### **Events detail**

CaloMET [back to top]

Object property	Туре	Description
CaloMET_phi	Float_t	phi
CaloMET_pt	Float_t	pt
CaloMET_sumEt	Float_t	scalar sum of Et

ChsMET [back to top]

Object property	Туре	Description
ChsMET_phi	Float_t	raw chs PF MET phi
ChsMET_pt	Float_t	raw chs PF MET pt
ChsMET_sumEt	Float_t	raw chs PF scalar sum of Et

CorrT1METJet [back to top]

Object property	Туре	Description
CorrT1METJet_area	Float_t	jet catchment area, for JECs
CorrT1METJet_eta	Float_t	eta
CorrT1METJet_muonSubtrFactor	Float_t	1-(muon-subtracted raw pt)/(raw pt)
CorrT1METJet_phi	Float_t	phi
CorrT1METJet_rawPt	Float_t	pt()*jecFactor('Uncorrected')
nCorrT1METJet	UInt_t	Additional low-pt jets for Type-1 MET re-correction

 ${\bf DeepMETRe solutionTune}~^{[back~to~top]}$ 

Object property	Туре	Description
DeepMETResolutionTune_phi	Float_t	DeepmET ResolutionTune phi
DeepMETResolutionTune_pt	Float_t	DeepMET ResolutionTune pt

DeepMETResponseTune [back to top]

Object property	Туре	Description
DeepMETResponseTune_phi	Float_t	DeepMET ResponseTune phi
DeepMETResponseTune_pt	Float_t	DeepMET ResponseTune pt

Electron [back to top]

Object	property	Туре

112/2021	Doc	differentiation for metazz_www.
Electron_charge	Int_t	electric charge
Electron_cleanmask	UChar_t	simple cleaning mask with priority to leptons
Electron_convVeto	Bool_t	pass conversion veto
Electron_cutBased	Int_t	cut-based ID Fall17 V2 (0:fail, 1:veto, 2:loose, 3:medium, 4:t
Electron_cutBased_Fall17_V1	Int_t	cut-based ID Fall17 V1 (0:fail, 1:veto, 2:loose, 3:medium, 4:t
Electron_cutBased_HEEP	Bool_t	cut-based HEEP ID
Electron_deltaEtaSC	Float_t	delta eta (SC,ele) with sign
Electron_dr03EcalRecHitSumEt	Float_t	Non-PF Ecal isolation within a delta R cone of 0.3 with electr
Electron_dr03HcalDepth1TowerSumEt	Float_t	Non-PF Hcal isolation within a delta R cone of 0.3 with electr
Electron_dr03TkSumPt	Float_t	Non-PF track isolation within a delta R cone of 0.3 with elect
Electron_dr03TkSumPtHEEP	Float_t	Non-PF track isolation within a delta R cone of 0.3 with elect
Electron_dxy	Float_t	dxy (with sign) wrt first PV, in cm
Electron_dxyErr	Float_t	dxy uncertainty, in cm
Electron_dz	Float_t	dz (with sign) wrt first PV, in cm
Electron_dzErr	Float_t	dz uncertainty, in cm
Electron_eCorr	Float_t	ratio of the calibrated energy/miniaod energy
Electron_eInvMinusPInv	Float_t	1/E_SC - 1/p_trk
Electron_energyErr	Float_t	energy error of the cluster-track combination
Electron_eta	Float_t	eta
Electron_genPartFlav	UChar_t	Flavour of genParticle for MC matching to status==1 electrons 0 = unmatched
Electron_genPartIdx	<pre>Int_t(index to Genpart)</pre>	Index into genParticle list for MC matching to status==1 elect
Electron_hoe	Float_t	H over E
Electron_ip3d	Float_t	3D impact parameter wrt first PV, in cm
Electron_isPFcand	Bool_t	electron is PF candidate
Electron_jetIdx	<pre>Int_t(index to Jet)</pre>	index of the associated jet (-1 if none)
Electron_jetPtRelv2	Float_t	Relative momentum of the lepton with respect to the closest je
Electron_jetRelIso	Float_t	Relative isolation in matched jet (1/ptRatio-1, pfRelIso04_all
Electron_lostHits	UChar_t	number of missing inner hits
Electron_mass	Float_t	mass
Electron_miniPFRelIso_all	Float_t	mini PF relative isolation, total (with scaled rho*EA PU corre
Electron_miniPFRelIso_chg	Float_t	mini PF relative isolation, charged component
Electron_mvaFall17V1Iso	Float_t	MVA Iso ID V1 score
Electron_mvaFall17V1Iso_WP80	Bool_t	MVA Iso ID V1 WP80
Electron_mvaFall17V1Iso_WP90	Bool_t	MVA Iso ID V1 WP90
Electron_mvaFall17V1Iso_WPL	Bool_t	MVA Iso ID V1 loose WP
Electron_mvaFall17V1noIso	Float_t	MVA noIso ID V1 score
Electron_mvaFall17V1noIso_WP80	Bool_t	MVA noIso ID V1 WP80
Electron_mvaFall17V1noIso_WP90	Bool_t	MVA noIso ID V1 WP90
Electron_mvaFall17V1noIso_WPL	Bool_t	MVA noIso ID V1 loose WP
Electron_mvaFall17V2Iso	Float_t	MVA Iso ID V2 score
Electron_mvaFall17V2Iso_WP80	Bool_t	MVA Iso ID V2 WP80
Electron_mvaFall17V2Iso_WP90	Bool_t	MVA Iso ID V2 WP90
Electron_mvaFall17V2Iso_WPL	Bool_t	MVA Iso ID V2 loose WP
Electron_mvaFall17V2noIso	Float_t	MVA noIso ID V2 score
Electron_mvaFall17V2noIso_WP80	Bool_t	MVA noIso ID V2 WP80
Electron_mvaFall17V2noIso_WP90	Bool_t	MVA noIso ID V2 WP90
Electron_mvaFall17V2noIso_WPL	Bool_t	MVA noIso ID V2 loose WP
Electron_mvaTTH	Float_t	TTH MVA lepton ID score
Electron_pdgId	Int_t	PDG code assigned by the event reconstruction (not by MC truth
Electron_pfRelIso03_all	Float_t	PF relative isolation dR=0.3, total (with rho*EA PU correction
Electron_pfRelIso03_chg	Float_t	PF relative isolation dR=0.3, charged component
Electron_phi	Float_t	phi (1 if max)
Electron_photonIdx	Int_t(index to Photon)	index of the associated photon (-1 if none)
Electron_pt	Float_t	p_{T}
Electron_r9	Float_t	R9 of the supercluster, calculated with full 5x5 region
Electron_scEtOverPt	Float_t	(supercluster transverse energy)/pt-1
Electron_seedGain	UChar_t	Gain of the seed crystal
Electron_sieie	Float_t	sigma_IetaIeta of the supercluster, calculated with full 5x5 r
Electron_sip3d	Float_t	3D impact parameter significance wrt first PV, in cm
Electron_tightCharge	Int_t	Tight charge criteria (0:none, 1:isGsfScPixChargeConsistent, 2

Electron_vidNestedWPBitmap	Int_t	VID compressed bitmap (MinPtCut,GsfEleSCEtaMultiRangeCut,GsfEl
Electron_vidNestedWPBitmapHEEP	Int_t	VID compressed bitmap (MinPtCut,GsfEleSCEtaMultiRangeCut,GsfEleDEtaInSeedCut,GsfEleD 1 bits per cut
nElectron	UInt_t	slimmedElectrons after basic selection (pt > 5 )

FatJet [back to top]

Object property	Туре	Description
FatJet_area	Float_t	jet catchment area, for JECs
FatJet_btagCMVA	Float_t	CMVA V2 btag discriminator
FatJet_btagCSVV2	Float_t	<pre>pfCombinedInclusiveSecondaryVertexV2 b-tag discriminator (aka CSVV2)</pre>
FatJet_btagDDBvL	Float_t	DeepDoubleX (mass-decorrelated) discriminator for $H(Z)$ ->bb vs QCD
FatJet_btagDDBvL_noMD	Float_t	DeepDoubleX discriminator (no mass-decorrelation) for H(Z)->bt vs QCD
FatJet_btagDDCvB	Float_t	DeepDoubleX (mass-decorrelated) discriminator for $H(Z)$ ->cc vs $H(Z)$ ->bb
FatJet_btagDDCvB_noMD	Float_t	DeepDoubleX discriminator (no mass-decorrelation) for $H(Z)$ ->covs $H(Z)$ ->bb
FatJet_btagDDCvL	Float_t	DeepDoubleX (mass-decorrelated) discriminator for H(Z)->cc vs QCD
FatJet_btagDDCvL_noMD	Float_t	DeepDoubleX discriminator (no mass-decorrelation) for H(Z)->covs QCD
FatJet_btagDeepB	Float_t	DeepCSV b+bb tag discriminator
FatJet_btagHbb	Float_t	Higgs to BB tagger discriminator
FatJet_deepTagMD_H4qvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger H->4q vs QCD
FatJet_deepTagMD_HbbvsQCD	Float_t	discriminator  Mass-decorrelated DeepBoostedJet tagger H->bb vs QCD
		discriminator
FatJet_deepTagMD_TvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger top vs QCD discriminator
FatJet_deepTagMD_WvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger W vs QCD discriminato
FatJet_deepTagMD_ZHbbvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger Z/H->bb vs QCD discriminator
FatJet_deepTagMD_ZHccvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger Z/H->cc vs QCD discriminator
FatJet_deepTagMD_ZbbvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger Z->bb vs QCD discriminator
FatJet_deepTagMD_ZvsQCD	Float_t	Mass-decorrelated DeepBoostedJet tagger Z vs QCD discriminator
FatJet_deepTagMD_bbvsLight	Float_t	Mass-decorrelated DeepBoostedJet tagger Z/H/gluon->bb vs light flavour discriminator
FatJet_deepTagMD_ccvsLight	Float_t	Mass-decorrelated DeepBoostedJet tagger Z/H/gluon->cc vs light flavour discriminator
FatJet_deepTag_H	Float_t	DeepBoostedJet tagger H(bb,cc,4q) sum
FatJet_deepTag_QCD	Float_t	DeepBoostedJet tagger QCD(bb,cc,b,c,others) sum
FatJet_deepTag_QCDothers	Float_t	DeepBoostedJet tagger QCDothers value
FatJet_deepTag_TvsQCD	Float_t	DeepBoostedJet tagger top vs QCD discriminator
FatJet_deepTag_WvsQCD	Float_t	DeepBoostedJet tagger W vs QCD discriminator
FatJet_deepTag_ZvsQCD	Float_t	DeepBoostedJet tagger Z vs QCD discriminator
FatJet_electronIdx3SJ	<pre>Int_t(index to Electron)</pre>	index of electron matched to jet
FatJet_eta	Float_t	eta
FatJet_genJetAK8Idx	<pre>Int_t(index to Genjetak8)</pre>	index of matched gen AK8 jet
FatJet_hadronFlavour	Int_t	flavour from hadron ghost clustering
FatJet_jetId	Int_t	Jet ID flags bit1 is loose (always false in 2017 since it does not exist), bit2 is tight, bit3 is tightLepVeto
FatJet_lsf3	Float_t	Lepton Subjet Fraction (3 subjets)
FatJet_mass	Float_t	mass
FatJet_msoftdrop	Float_t	Corrected soft drop mass with PUPPI
FatJet_muonIdx3SJ	<pre>Int_t(index to Muon)</pre>	index of muon matched to jet
FatJet_n2b1	Float_t	N2 with beta=1
FatJet_n3b1	Float_t	N3 with beta=1
FatJet_nBHadrons	UChar_t	number of b-hadrons
FatJet_nCHadrons	UChar_t	number of c-hadrons
FatJet_phi	Float_t	phi

FatJet_pt	Float_t	pt
FatJet_rawFactor	Float_t	1 - Factor to get back to raw pT
FatJet_subJetIdx1	<pre>Int_t(index to Subjet)</pre>	index of first subjet
FatJet_subJetIdx2	<pre>Int_t(index to Subjet)</pre>	index of second subjet
FatJet_tau1	Float_t	Nsubjettiness (1 axis)
FatJet_tau2	Float_t	Nsubjettiness (2 axis)
FatJet_tau3	Float_t	Nsubjettiness (3 axis)
FatJet_tau4	Float_t	Nsubjettiness (4 axis)
nFatJet	UInt_t	slimmedJetsAK8, i.e. ak8 fat jets for boosted analysis

Flag [back to top]

Object property	Туре	Description
Flag_BadChargedCandidateFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_BadChargedCandidateSummer16Filter	Bool_t	Trigger/flag bit (process: PAT)
Flag_BadPFMuonFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_BadPFMuonSummer16Filter	Bool_t	Trigger/flag bit (process: PAT)
Flag_CSCTightHalo2015Filter	Bool_t	Trigger/flag bit (process: PAT)
Flag_CSCTightHaloFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_CSCTightHaloTrkMuUnvetoFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_EcalDeadCellBoundaryEnergyFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_EcalDeadCellTriggerPrimitiveFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_HBHENoiseFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_HBHENoiseIsoFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_HcalStripHaloFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_METFilters	Bool_t	Trigger/flag bit (process: PAT)
Flag_chargedHadronTrackResolutionFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_ecalBadCalibFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_ecalBadCalibFilterV2	Bool_t	Bad ECAL calib flag (updated xtal list)
Flag_ecalLaserCorrFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_eeBadScFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_globalSuperTightHalo2016Filter	Bool_t	Trigger/flag bit (process: PAT)
Flag_globalTightHalo2016Filter	Bool_t	Trigger/flag bit (process: PAT)
Flag_goodVertices	Bool_t	Trigger/flag bit (process: PAT)
Flag_hcalLaserEventFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_muonBadTrackFilter	Bool_t	Trigger/flag bit (process: PAT)
Flag_trkPOGFilters	Bool_t	Trigger/flag bit (process: PAT)
Flag_trkPOG_logErrorTooManyClusters	Bool_t	Trigger/flag bit (process: PAT)
Flag_trkPOG_manystripclus53X	Bool_t	Trigger/flag bit (process: PAT)
Flag_trkPOG_toomanystripclus53X	Bool_t	Trigger/flag bit (process: PAT)

FsrPhoton [back to top]

Object property	Туре	Description	
FsrPhoton_dROverEt2	Float_t	deltaR to associated muon divided by photon et2	
FsrPhoton_eta	Float_t	eta	
FsrPhoton_muonIdx	<pre>Int_t(index to Muon)</pre>	index of associated muon	
FsrPhoton_phi	Float_t	phi	
FsrPhoton_pt	Float_t	pt	
FsrPhoton_relIso03	Float_t	relative isolation in a 0.3 cone without CHS	
nFsrPhoton	UInt_t	Final state radiation photons emitted by muons	

GenDressedLepton [back to top]

Object property	Туре	Description
GenDressedLepton_eta	Float_t	eta
GenDressedLepton_hasTauAnc	Bool_t	true if Dressed lepton has a tau as ancestor
GenDressedLepton_mass	Float_t	mass
GenDressedLepton_pdgId	Int_t	PDG id
GenDressedLepton_phi	Float_t	phi
GenDressedLepton_pt	Float_t	pt
nGenDressedLepton	UInt_t	Dressed leptons from Rivet-based ParticleLevelProducer

GenIsolatedPhoton [back to top]

GenIsolatedPhoton_eta	Float_t	eta
GenIsolatedPhoton_mass	Float_t	mass
GenIsolatedPhoton_phi	Float_t	phi
GenIsolatedPhoton_pt	Float_t	pt
nGenIsolatedPhoton	UInt_t	Isolated photons from Rivet-based ParticleLevelProducer

# GenJet [back to top]

Object property	Туре	Description
GenJet_eta	Float_t	eta
GenJet_hadronFlavour	UChar_t	flavour from hadron ghost clustering
GenJet_mass	Float_t	mass
GenJet_partonFlavour	Int_t	flavour from parton matching
GenJet_phi	Float_t	phi
GenJet_pt	Float_t	pt
nGenJet	UInt_t	slimmedGenJets, i.e. ak4 Jets made with visible genparticles

# GenJetAK8 [back to top]

Object property	Туре	Description
GenJetAK8_eta	Float_t	eta
GenJetAK8_hadronFlavour	UChar_t	flavour from hadron ghost clustering
GenJetAK8_mass	Float_t	mass
GenJetAK8_partonFlavour	Int_t	flavour from parton matching
GenJetAK8_phi	Float_t	phi
GenJetAK8_pt	Float_t	pt
nGenJetAK8	UInt_t	slimmedGenJetsAK8, i.e. ak8 Jets made with visible genparticles

# GenMET [back to top]

Object property	Туре	Description
GenMET_phi	Float_t	phi
GenMET_pt	Float_t	pt

# GenPart [back to top]

Object property	Туре	Description
GenPart_eta	Float_t	eta
GenPart_genPartIdxMother	<pre>Int_t(index to Genpart)</pre>	index of the mother particle
GenPart_mass	Float_t	Mass stored for all particles with the exception of quarks (except top), leptons/neutrinos, photons with mass < 1 GeV, gluons, pi0(111), pi+(211), D0(421), and D+(411). For these particles, you can lookup the value from PDG.
GenPart_pdgId	Int_t	PDG id
GenPart_phi	Float_t	phi
GenPart_pt	Float_t	pt
GenPart_status	Int_t	Particle status. 1=stable
GenPart_statusFlags	Int_t	gen status flags stored bitwise, bits are: 0 : isPrompt, 1 : isDecayedLeptonHadron, 2 : isTauDecayProduct, 3 : isPromptTauDecayProduct, 4 : isDirectTauDecayProduct, 5 : isDirectPromptTauDecayProduct, 6 : isDirectHadronDecayProduct, 7 : isHardProcess, 8 : fromHardProcess, 9 : isHardProcessTauDecayProduct, 10 : isDirectHardProcessTauDecayProduct, 11 : fromHardProcessBeforeFSR, 12 : isFirstCopy, 13 : isLastCopy, 14 : isLastCopyBeforeFSR,
nGenPart	UInt_t	interesting gen particles

# GenVisTau [back to top]

Object property	Туре	Description
GenVisTau_charge	Int_t	charge
GenVisTau_eta	Float_t	eta
GenVisTau_genPartIdxMother	Int_t(index to Genpart)	index of the mother particle
GenVisTau_mass	Float_t	mass
GenVisTau_phi	Float_t	phi
GenVisTau_pt	Float_t	pt
GenVisTau_status	Int_t	Hadronic tau decay mode. 0=OneProng0PiZero, 1=OneProng1PiZero, 2=OneProng2PiZero, 10=ThreeProng0PiZero, 11=ThreeProng1PiZero, 15=Other

gen hadronic taus

Generator [back to top]

Object property	Туре	Description
Generator_binvar	Float_t	MC generation binning value
Generator_id1	Int_t	id of first parton
Generator_id2	Int_t	id of second parton
Generator_scalePDF	Float_t	Q2 scale for PDF
Generator_weight	Float_t	MC generator weight
Generator_x1	Float_t	x1 fraction of proton momentum carried by the first parton
Generator_x2	Float_t	x2 fraction of proton momentum carried by the second parton
Generator_xpdf1	Float_t	x*pdf(x) for the first parton
Generator_xpdf2	Float_t	x*pdf(x) for the second parton

HLT [back to top]

Object property	Туре	Description
HLT_AK4CaloJet100	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4CaloJet120	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4CaloJet30	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4CaloJet40	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4CaloJet50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4CaloJet80	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4PFJet100	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4PFJet120	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4PFJet30	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4PFJet50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK4PFJet80	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFHT750_TrimMass50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFHT800_TrimMass50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFHT850_TrimMass50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFHT900_TrimMass50	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet140	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet15	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet200	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet25	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet260	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet320	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet330_TrimMass30_PFAK8BTagDeepCSV_p1	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet330_TrimMass30_PFAK8BTagDeepCSV_p17	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet330_TrimMass30_PFAK8BoostedDoubleB_np2	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet330_TrimMass30_PFAK8BoostedDoubleB_np4	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet330_TrimMass30_PFAK8BoostedDoubleB_p02	Bool_t	Trigger/flag bi (process: HLT)
HLT_AK8PFJet360_TrimMass30	Bool_t	Trigger/flag bi

		(process: HLT)
HLT_AK8PFJet380_TrimMass30	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet40	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet400	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet400_TrimMass30	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet420_TrimMass30	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet450	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet500	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet550	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet60	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJet80	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd140	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd15	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd200	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd25	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd260	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd320	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd40	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd400	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd450	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd500	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd60	Bool_t	Trigger/flag bit (process: HLT)
HLT_AK8PFJetFwd80	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet110_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet110_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet170_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet170_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet20_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet20_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet40_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet40_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet70_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4DiJet70_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4Jet300_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK4Jet300_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK8DiJet170_Mu5	Bool_t	Trigger/flag bit (process: HLT)
	<del> </del>	(hincess uri)

HLT_BTagMu_AK8DiJet170_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK8Jet170_DoubleMu5	Bool_t	Trigger/flag bit
HLT_BTagMu_AK8Jet170_DoubleMu5_noalgo	Bool_t	(process: HLT) Trigger/flag bit (process: HLT)
HLT_BTagMu_AK8Jet300_Mu5	Bool_t	Trigger/flag bit (process: HLT)
HLT_BTagMu_AK8Jet300_Mu5_noalgo	Bool_t	Trigger/flag bit (process: HLT)
HLT_CDC_L2cosmic_5_er1p0	Bool_t	Trigger/flag bit (process: HLT)
HLT_CDC_L2cosmic_5p5_er1p0	Bool_t	Trigger/flag bit (process: HLT)
HLT_CaloJet500_NoJetID	Bool_t	Trigger/flag bit (process: HLT)
HLT_CaloJet550_NoJetID	Bool_t	Trigger/flag bit (process: HLT)
HLT_CaloMET100_HBHECleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_CaloMET100_NotCleaned	Bool_t	Trigger/flag bit
HLT_CaloMET110_NotCleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET250_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET250_NotCleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET300_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET350_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET70_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET80_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET80_NotCleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET90_HBHECleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMET90_NotCleaned	Bool_t	(process: HLT) Trigger/flag bit
HLT_CaloMHT90	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiEle27_WPTightCalo0nly_L1DoubleEG	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiJet110_35_Mjj650_PFMET110	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiJet110_35_Mjj650_PFMET120	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiJet110_35_Mjj650_PFMET130	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiMu4_Ele9_CaloIdL_TrackIdL_DZ_Mass3p8	Bool_t	(process: HLT) Trigger/flag bit
HLT DiMu9 Ele9 CaloIdL TrackIdL	Bool_t	(process: HLT) Trigger/flag bit
HLT_DiMu9_Ele9_CaloIdL_TrackIdL_DZ	Bool t	(process: HLT) Trigger/flag bit
HLT_DiPFJetAve100_HFJEC	Bool t	(process: HLT) Trigger/flag bit
HLT_DiPFJetAve140	Bool_t	(process: HLT)  Trigger/flag bit
HLT_DIPFJetAve160_HFJEC	Bool_t	(process: HLT) Trigger/flag bit
HLT_DIPFJetAve200	Bool_t	(process: HLT) Trigger/flag bit
		(process: HLT)
HLT_DiPFJetAve220_HFJEC	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve260	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve300_HFJEC	Bool_t	Trigger/flag bit

	_	(process: HLT)
HLT_DiPFJetAve320	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve40	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve400	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve500	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve60	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve60_HFJEC	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve80	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiPFJetAve80_HFJEC	Bool_t	Trigger/flag bit (process: HLT)
HLT_DiSC30_18_EIso_AND_HE_Mass70	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi3p5_Muon2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi_L1_4R_0er1p5R	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi_L1_NoOS	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi_NoVertexing	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi_NoVertexing_L1_4R_0er1p5R	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Jpsi_NoVertexing_NoOS	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass_L1_0er1p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass_L1_0er1p5R	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass_L1_4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass_L1_4R	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_LowMass_L1_TM530	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_4p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_4p5NoOS	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_4p5er2p0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_4p5er2p0M	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_L1_5M	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_Muon_L1_TM0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_Muon_NoL1Mass	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon0_Upsilon_NoVertexing	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon10_PsiPrime_Barrel_Seagulls	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon12_Upsilon_y1p4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon14_Phi_Barrel_Seagulls	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon18_PsiPrime	Bool_t	Trigger/flag bit (process: HLT)
		(1-1-1-1)

HLT_Dimuon18_PsiPrime_noCorrL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon20_Jpsi_Barrel_Seagulls	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon24_Phi_noCorrL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon24_Upsilon_noCorrL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon25_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Dimuon25_Jpsi_noCorrL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30PV_18PV_R9Id_AND_IsoCaloId_AND_HE_R9Id_NoPixelVeto_Mass55	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30PV_18PV_R9Id_AND_IsoCaloId_AND_HE_R9Id_PixelVeto_Mass55	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30_18_R9IdL_AND_HE_AND_IsoCaloId_NoPixelVeto	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30_18_R9IdL_AND_HE_AND_IsoCaloId_NoPixelVeto_Mass55	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30_22_R9Id_OR_IsoCaloId_AND_HE_R9Id_Mass90	Bool_t	Trigger/flag bit (process: HLT)
HLT_Diphoton30_22_R9Id_OR_IsoCaloId_AND_HE_R9Id_Mass95	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle24_eta2p1_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle25_CaloIdL_MW	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle27_CaloIdL_MW	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle33_CaloIdL_MW	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle8_CaloIdM_TrackIdM_Mass8_DZ_PFHT350	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleEle8_CaloIdM_TrackIdM_Mass8_PFHT350	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleIsoMu20_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu23NoVtx_2Cha	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu23NoVtx_2Cha_CosmicSeed	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu23NoVtx_2Cha_CosmicSeed_NoL2Matched	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu23NoVtx_2Cha_NoL2Matched	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha_CosmicSeed	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha_CosmicSeed_Eta2p4	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha_CosmicSeed_NoL2Matched	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha_Eta2p4	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu25NoVtx_2Cha_NoL2Matched	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu30NoVtx_2Cha_CosmicSeed_Eta2p4	Bool_t	Trigger/flag bit (process: HLT)
HLT Doublet 2My20NoVey, 20ho, Etc2n4		
HLT_DoubleL2Mu30NoVtx_2Cha_Eta2p4	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleL2Mu50	Bool_t	Trigger/flag bit (process: HLT) Trigger/flag bit (process: HLT)
		(process: HLT) Trigger/flag bit
HLT_DoubleL2Mu50	Bool_t	(process: HLT) Trigger/flag bit (process: HLT) Trigger/flag bit
HLT_DoubleL2Mu50  HLT_DoubleMediumChargedIsoPFTauHPS35_Trk1_TightID_eta2p1_Reg	Bool_t	(process: HLT) Trigger/flag bit (process: HLT) Trigger/flag bit (process: HLT) Trigger/flag bit

		(process: HLT)
HLT_DoubleMu20_7_Mass0to30_L1_DM4	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu20_7_Mass0to30_L1_DM4EG	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu20_7_Mass0to30_Photon23	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu2_Jpsi_DoubleTkMu0_Phi	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu2_Jpsi_DoubleTrk1_Phi1p05	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu33NoFiltersNoVtxDisplaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_DCA_PFMET50_PFMHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_DZ_PFMET50_PFMHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_DZ_PFMET70_PFMHT70	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_DZ_PFMET90_PFMHT90	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_DoubleEle7p5_CaloIdL_TrackIdL_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_TkMu_DsTau3Mu	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_Trk_Tau3mu	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu3_Trk_Tau3mu_NoL1Mass	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu40NoFiltersNoVtxDisplaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu43NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu48NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_3_Bs	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_3_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_JpsiTrkTrk_Displaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_JpsiTrk_Displaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_Jpsi_Displaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_Jpsi_NoVertexing	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_LowMassNonResonantTrk_Displaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_Mass3p8_DZ_PFHT350	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu4_PsiPrimeTrk_Displaced	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleMu5_Upsilon_DoubleEle3_CaloIdL_TrackIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets100_CaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets116MaxDeta1p6_DoubleCaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets128MaxDeta1p6_DoubleCaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets200_CaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets350_CaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePFJets40_CaloBTagDeepCSV_p71	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePhoton33_CaloIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoublePhoton70	Bool_t	Trigger/flag bit (process: HLT)
		(5. 555551 1121)

HLT_DoublePhoton85	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleTightChargedIsoPFTauHPS35_Trk1_TightID_eta2p1_Reg	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleTightChargedIsoPFTauHPS35_Trk1_eta2p1_Reg	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleTightChargedIsoPFTauHPS40_Trk1_TightID_eta2p1_Reg	Bool_t	Trigger/flag bit (process: HLT)
HLT_DoubleTightChargedIsoPFTauHPS40_Trk1_eta2p1_Reg	Bool_t	Trigger/flag bit
HLT_DoubleTrkMu_16_6_NoFiltersNoVtx	Bool_t	(process: HLT) Trigger/flag bit
HLT_ECALHT800	Bool_t	(process: HLT) Trigger/flag bit
HLT_EcalCalibration	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele115_CaloIdVT_GsfTrkIdT	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele12_CaloIdL_TrackIdL_IsoVL_PFJet30	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele135_CaloIdVT_GsfTrkIdT	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele145_CaloIdVT_GsfTrkIdT	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_CaloIdL_TrackIdL_IsoVL_PFJet30	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_Ele8_CaloIdL_TrackIdL_IsoVL	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_IsoVVVL_PFHT450	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_IsoVVVL_PFHT450_CaloBTagDeepCSV_4p5	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_IsoVVVL_PFHT450_PFMET50	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele15_IsoVVVL_PFHT600	Bool t	(process: HLT) Trigger/flag bit
HLT_Ele15_WPLoose_Gsf	Bool_t	(process: HLT) Trigger/flag bit
HLT Ele16 Ele12 Ele8 CaloIdL TrackIdL	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele17_CaloIdM_TrackIdM_PFJet30	Bool_t	(process: HLT) Trigger/flag bit
HLT_Ele17_WPLoose_Gsf	Bool t	(process: HLT) Trigger/flag bit
HLT_Ele200_CaloIdVT_GsfTrkIdT	Bool t	(process: HLT) Trigger/flag bit
		(process: HLT)
HLT_Ele20_WPLoose_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele20_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele20_eta2p1_WPLoose_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele23_CaloIdL_TrackIdL_IsoVL_PFJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele23_CaloIdM_TrackIdM_PFJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele23_Ele12_CaloIdL_TrackIdL_IsoVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele23_Ele12_CaloIdL_TrackIdL_IsoVL_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_LooseChargedIsoPFTauHPS30_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_LooseChargedIsoPFTauHPS30_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_MediumChargedIsoPFTauHPS30_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_MediumChargedIsoPFTauHPS30_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_TightChargedIsoPFTauHPS30_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele24_eta2p1_WPTight_Gsf_TightChargedIsoPFTauHPS30_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit

		(process: HLT)
HLT_Ele250_CaloIdVT_GsfTrkIdT	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele27_Ele37_CaloIdL_MW	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele27_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele28_HighEta_SC20_Mass55	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele28_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele28_eta2p1_WPTight_Gsf_HT150	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele300_CaloIdVT_GsfTrkIdT	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele30_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele30_eta2p1_WPTight_Gsf_CentralPFJet35_EleCleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele32_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele32_WPTight_Gsf_L1DoubleEG	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele35_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele35_WPTight_Gsf_L1EGMT	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele38_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele40_WPTight_Gsf	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele50_CaloIdVT_GsfTrkIdT_PFJet165	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele50_IsoVVVL_PFHT450	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele8_CaloIdL_TrackIdL_IsoVL_PFJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_Ele8_CaloIdM_TrackIdM_PFJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT300_Beamspot	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT400_DisplacedDijet40_DisplacedTrack	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT425	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT430_DisplacedDijet40_DisplacedTrack	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT430_DisplacedDijet60_DisplacedTrack	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT450_Beamspot	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT500_DisplacedDijet40_DisplacedTrack	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT550_DisplacedDijet60_Inclusive	Bool_t	Trigger/flag bit (process: HLT)
HLT_HT650_DisplacedDijet60_Inclusive	Bool_t	Trigger/flag bit (process: HLT)
HLT_HcalCalibration	Bool_t	Trigger/flag bit (process: HLT)
HLT_HcalIsolatedbunch	Bool_t	Trigger/flag bit (process: HLT)
HLT_HcalNZS	Bool_t	Trigger/flag bit (process: HLT)
HLT_HcalPhiSym	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20_eta2p1_LooseChargedIsoPFTauHPS27_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20_eta2p1_LooseChargedIsoPFTauHPS27_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
		(hincess. uri)

HLT_IsoMu20_eta2p1_MediumChargedIsoPFTauHPS27_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20_eta2p1_MediumChargedIsoPFTauHPS27_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20_eta2p1_TightChargedIsoPFTauHPS27_eta2p1_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu20_eta2p1_TightChargedIsoPFTauHPS27_eta2p1_TightID_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_TwoProngs35	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1_MediumChargedIsoPFTauHPS35_Trk1_TightID_eta2p1_Reg_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1_MediumChargedIsoPFTauHPS35_Trk1_eta2p1_Reg_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1_TightChargedIsoPFTauHPS35_Trk1_TightID_eta2p1_Reg_CrossL1	Bool_t	Trigger/flag bit (process: HLT)
HLT_IsoMu24_eta2p1_TightChargedIsoPFTauHPS35_Trk1_eta2p1_Reg_CrossL1	Bool_t	Trigger/flag bit
HLT_IsoMu27	Bool_t	(process: HLT)  Trigger/flag bit
HLT_IsoMu27_LooseChargedIsoPFTauHPS20_Trk1_eta2p1_SingleL1	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoMu27_MET90	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoMu27_MediumChargedIsoPFTauHPS20_Trk1_eta2p1_SingleL1	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoMu27_TightChargedIsoPFTauHPS20_Trk1_eta2p1_SingleL1	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoMu30	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoTrackHB	Bool_t	(process: HLT) Trigger/flag bit
HLT_IsoTrackHE	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1ETMHadSeeds	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1NotBptx0R	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1SingleMu18	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1SingleMu25	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1UnpairedBunchBptxMinus	Bool_t	(process: HLT) Trigger/flag bit
HLT_L1UnpairedBunchBptxPlus	Bool t	(process: HLT) Trigger/flag bit
HLT_L1_CDC_SingleMu_3_er1p2_TOP120_DPHI2p618_3p142	Bool t	(process: HLT) Trigger/flag bit
HLT_L2Mu10	Bool_t	(process: HLT)  Trigger/flag bit
HLT_L2Mu10_NoVertex_NoBPTX	Bool t	(process: HLT)  Trigger/flag bit
HLT_L2Mu10_NoVertex_NoBPTX3BX	Bool_t	(process: HLT)  Trigger/flag bit
		(process: HLT)
HLT_L2Mu23NoVtx_2Cha	Bool_t	Trigger/flag bit (process: HLT)
HLT_L2Mu23NoVtx_2Cha_CosmicSeed	Bool_t	Trigger/flag bit (process: HLT)
HLT_L2Mu40_NoVertex_3Sta_NoBPTX3BX	Bool_t	Trigger/flag bit (process: HLT)
HLT_L2Mu45_NoVertex_3Sta_NoBPTX3BX	Bool_t	Trigger/flag bit (process: HLT)
HLT_L2Mu50	Bool_t	Trigger/flag bit (process: HLT)
HLT_MET105_IsoTrk50	Bool_t	Trigger/flag bit

	_	(process: HLT)
HLT_MET120_IsoTrk50	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau180HighPtRelaxedIso_Trk50_eta2p1	Bool_t	Trigger/flag bit _(process: HLT)
HLT_MediumChargedIsoPFTau180HighPtRelaxedIso_Trk50_eta2p1_1pr	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau200HighPtRelaxedIso_Trk50_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau220HighPtRelaxedIso_Trk50_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET100	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET110	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET120	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET130	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET140	Bool_t	Trigger/flag bit (process: HLT)
HLT_MediumChargedIsoPFTau50_Trk30_eta2p1_1pr_MET90	Bool_t	Trigger/flag bit (process: HLT)
HLT_MonoCentralPFJet80_PFMETNoMu110_PFMHTNoMu110_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_MonoCentralPFJet80_PFMETNoMu120_PFMHTNoMu120_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_MonoCentralPFJet80_PFMETNoMu130_PFMHTNoMu130_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_MonoCentralPFJet80_PFMETNoMu140_PFMHTNoMu140_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu10_TrkIsoVVL_DiPFJet40_DEta3p5_MJJ750_HTT350_PFMETNOMu60	Bool_t	Trigger/flag bit
HLT_Mu12	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets100_CaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets200_CaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets350_CaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets40MaxDeta1p6_DoubleCaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets40_CaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets54MaxDeta1p6_DoubleCaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePFJets62MaxDeta1p6_DoubleCaloBTagDeepCSV_p71	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_DoublePhoton20	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_IP6_part0	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_IP6_part1	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_IP6_part2	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_IP6_part3	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_IP6_part4	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu12_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu15	Bool t	(process: HLT)  Trigger/flag bit
HLT_Mu15_IsoVVVL_PFHT450	Bool t	(process: HLT)  Trigger/flag bit
		(process: HLT)

HLT_Mu15_IsoVVVL_PFHT450_CaloBTagDeepCSV_4p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu15_IsoVVVL_PFHT450_PFMET50	Bool_t	Trigger/flag bit
HLT_Mu15_IsoVVVL_PFHT600	Bool_t	(process: HLT) Trigger/flag bit (process: HLT)
HLT_Mu17	Bool_t	Trigger/flag bit
HLT_Mu17_Photon30_IsoCaloId	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu17_TrkIsoVVL	Bool_t	(process: HLT) Trigger/flag bit (process: HLT)
HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL	Bool_t	Trigger/flag bit
HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ_Mass3p8	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu17_TrkIsoVVL_Mu8_TrkIsoVVL_DZ_Mass8	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu18_Mu9	Bool_t	(process: HLT) Trigger/flag bit
HLT Mu18 Mu9 DZ	Bool t	(process: HLT) Trigger/flag bit
		(process: HLT)
HLT_Mu18_Mu9_SameSign	Bool_t	Trigger/flag bit _(process: HLT)
HLT_Mu18_Mu9_SameSign_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19_TrkIsoVVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19_TrkIsoVVL_Mu9_TrkIsoVVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19_TrkIsoVVL_Mu9_TrkIsoVVL_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19_TrkIsoVVL_Mu9_TrkIsoVVL_DZ_Mass3p8	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu19_TrkIsoVVL_Mu9_TrkIsoVVL_DZ_Mass8	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20_Mu10	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20_Mu10_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20_Mu10_SameSign	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20_Mu10_SameSign_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu20_TkMu0_Phi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu23_Mu12	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu23_Mu12_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu23_Mu12_SameSign	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu23_Mu12_SameSign_DZ	Bool_t	Trigger/flag bit
HLT_Mu23_TrkIsoVVL_Ele12_CaloIdL_TrackIdL_IsoVL	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu23_TrkIsoVVL_Ele12_CaloIdL_TrackIdL_IsoVL_DZ	Bool_t	<pre>(process: HLT) Trigger/flag bit (process: HLT)</pre>
HLT_Mu25_TkMu0_Onia	Bool_t	Trigger/flag bit
HLT_Mu25_TkMu0_Phi	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu27	Bool_t	(process: HLT) Trigger/flag bit
HLT_Mu27_Ele37_CaloIdL_MW	Bool_t	(process: HLT) Trigger/flag bit

		(process: HLT)
HLT_Mu30_TkMu0_Psi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu30_TkMu0_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu37_Ele27_CaloIdL_MW	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu37_TkMu27	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu38NoFiltersNoVtxDisplaced_Photon38_CaloIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3_L1SingleMu5orSingleMu7	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3_PFJet40	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMET100_PFMHT100_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMET70_PFMHT70_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMET80_PFMHT80_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMET90_PFMHT90_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMETNoMu100_PFMHTNoMu100_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMETNoMu70_PFMHTNoMu70_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMETNoMu80_PFMHTNoMu80_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu3er1p5_PFJet100er2p5_PFMETNoMu90_PFMHTNoMu90_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu43NoFiltersNoVtxDisplaced_Photon43_CaloIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu43NoFiltersNoVtx_Photon43_CaloIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu48NoFiltersNoVtx_Photon48_CaloIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu4_TrkIsoVVL_DiPFJet90_40_DEta3p5_MJJ750_HTT300_PFMETNoMu60	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu50	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu50_IsoVVVL_PFHT450	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu55	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7_IP4_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7_IP4_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7_IP4_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7_IP4_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7_IP4_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_L2Mu2_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_L2Mu2_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track2_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track2_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track3p5_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track3p5_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track7_Jpsi	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu7p5_Track7_Upsilon	Bool_t	Trigger/flag bit (process: HLT)
		(рі оссээтінгі)

HLT_Mu8	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_DiEle12_CaloIdL_TrackIdL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_DiEle12_CaloIdL_TrackIdL_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_Ele8_CaloIdM_TrackIdM_Mass8_PFHT350	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_Ele8_CaloIdM_TrackIdM_Mass8_PFHT350_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP3_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP3_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP3_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP3_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP3_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP5_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP5_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP5_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP5_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP5_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP6_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP6_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP6_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP6_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_IP6_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_DiPFJet40_DEta3p5_MJJ750_HTT300_PFMETNoMu60	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ_CaloDiJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ_CaloDiJet30_CaloBtagDeepCSV_1p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ_PFDiJet30	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu8_TrkIsoVVL_Ele23_CaloIdL_TrackIdL_IsoVL_DZ_PFDiJet30_PFBtagDeepCSV_1p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP4_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP4_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP4_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP4_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP4_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP5_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP5_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP5_part2	Bool_t	Trigger/flag bit

		(process: HLT)
HLT_Mu9_IP5_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP5_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP6_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP6_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP6_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP6_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Mu9_IP6_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_01dMu100	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT1050	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT180	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT250	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT330PT30_QuadPFJet_75_60_45_40	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT330PT30_QuadPFJet_75_60_45_40_TriplePFBTagDeepCSV_4p5	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT350	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT350MinPFJet15	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT370	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT400_SixPFJet32	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT400_SixPFJet32_DoublePFBTagDeepCSV_2p94	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT430	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT450_SixPFJet36	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT450_SixPFJet36_PFBTagDeepCSV_1p59	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT500_PFMET100_PFMHT100_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT500_PFMET110_PFMHT110_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT510	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT590	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT680	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT700_PFMET85_PFMHT85_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT700_PFMET95_PFMHT95_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT780	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT800_PFMET75_PFMHT75_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT800_PFMET85_PFMHT85_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFHT890	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet140	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet15	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet200	Bool_t	Trigger/flag bit (process: HLT)
		(p. 00033. IIL1)

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HLT_PFJet25	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet260	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet320	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet40	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet400	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet450	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet500	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet550	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet60	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJet80	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFJetFwd140	Bool_t	Trigger/flag bit
HLT_PFJetFwd15	Bool_t	(process: HLT)  Trigger/flag bit
HLT_PFJetFwd200	Bool_t	(process: HLT)  Trigger/flag bit
HLT_PFJetFwd25	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd260	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd320	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd40	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd400	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd450	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd500	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd60	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFJetFwd80	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFMET100_PFMHT100_IDTight_CaloBTagDeepCSV_3p1	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFMET100_PFMHT100_IDTight_PFHT60	Bool_t	(process: HLT)  Trigger/flag bit
HLT_PFMET110_PFMHT110_IDTight	Bool_t	(process: HLT)  Trigger/flag bit
HLT_PFMET110_PFMHT110_IDTight_CaloBTagDeepCSV_3p1	Bool_t	(process: HLT) Trigger/flag bit
HLT_PFMET120_PFMHT120_IDTight	Bool_t	<pre>(process: HLT) Trigger/flag bit (process: HLT)</pre>
HLT_PFMET120_PFMHT120_IDTight_CaloBTagDeepCSV_3p1	Bool_t	Trigger/flag bit
HLT_PFMET120_PFMHT120_IDTight_PFHT60	Bool_t	<pre>(process: HLT) Trigger/flag bit (process: HLT)</pre>
HLT_PFMET130_PFMHT130_IDTight	Bool_t	Trigger/flag bit
HLT_PFMET130_PFMHT130_IDTight_CaloBTagDeepCSV_3p1	Bool_t	(process: HLT)  Trigger/flag bit
HLT_PFMET140_PFMHT140_IDTight	Bool_t	<pre>(process: HLT) Trigger/flag bit (process: HLT)</pre>
HLT_PFMET140_PFMHT140_IDTight_CaloBTagDeepCSV_3p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMET200_HBHECleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMET200_HBHE_BeamHaloCleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMET200_NotCleaned	Bool_t	Trigger/flag bit

		(process: HLT)
HLT_PFMET250_HBHECleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMET300_HBHECleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu100_PFMHTNoMu100_IDTight_PFHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu110_PFMHTNOMu110_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu120_PFMHTNOMu120_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu120_PFMHTNOMu120_IDTight_PFHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu130_PFMHTNOMu130_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETNOMu140_PFMHTNOMu140_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne100_PFMHT100_IDTight_PFHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne110_PFMHT110_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne120_PFMHT120_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne120_PFMHT120_IDTight_PFHT60	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne130_PFMHT130_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne140_PFMHT140_IDTight	Bool_t	Trigger/flag bit (process: HLT)
HLT_PFMETTypeOne200_HBHE_BeamHaloCleaned	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon100EBHE10	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon100EB_TightID_TightIso	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon100EEHE10	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon100EE_TightID_TightIso	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon110EB_TightID_TightIso	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon120	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon120EB_TightID_TightIso	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon120_R9Id90_HE10_IsoM	Bool_t	Trigger/flag bit
HLT_Photon150	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon165_R9Id90_HE10_IsoM	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon175	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon20	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon200	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon20_HoverELoose	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon300_NoHE	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon30_HoverELoose	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon33	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon35_TwoProngs35	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon50	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon50_R9Id90_HE10_IsoM	Bool t	(process: HLT)  Trigger/flag bit
		(process: HLT)

HLT_Photon50_R9Id90_HE10_IsoM_EBOnly_PFJetsMJJ300DEta3_PFMET50	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon60_R9Id90_CaloIdL_IsoL	Bool_t	Trigger/flag bit
HLT_Photon60_R9Id90_CaloIdL_IsoL_DisplacedIdL	Bool_t	(process: HLT) Trigger/flag bit (process: HLT)
HLT_Photon60_R9Id90_CaloIdL_IsoL_DisplacedIdL_PFHT350MinPFJet15	Bool_t	Trigger/flag bit (process: HLT)
HLT_Photon75	Bool_t	Trigger/flag bit
HLT_Photon75_R9Id90_HE10_IsoM	Bool_t	(process: HLT) Trigger/flag bit (process: HLT)
HLT_Photon75_R9Id90_HE10_IsoM_EBOnly_CaloMJJ300_PFJetsMJJ400DEta3	Bool_t	Trigger/flag bit
HLT_Photon75_R9Id90_HE10_IsoM_EBOnly_CaloMJJ400_PFJetsMJJ600DEta3	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon75_R9Id90_HE10_IsoM_EBOnly_PFJetsMJJ300DEta3	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon75_R9Id90_HE10_IsoM_EB0nly_PFJetsMJJ600DEta3	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon90	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon90_CaloIdL_PFHT700	Bool_t	(process: HLT) Trigger/flag bit
HLT_Photon90_R9Id90_HE10_IsoM	Bool_t	(process: HLT) Trigger/flag bit
HLT_Physics	Bool_t	(process: HLT) Trigger/flag bit
		(process: HLT)
HLT_Physics_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part5	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part6	Bool_t	Trigger/flag bit (process: HLT)
HLT_Physics_part7	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet103_88_75_15	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet103_88_75_15_DoublePFBTagDeepCSV_1p3_7p7_VBF1	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet103_88_75_15_PFBTagDeepCSV_1p3_VBF2	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet105_88_76_15	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet105_88_76_15_DoublePFBTagDeepCSV_1p3_7p7_VBF1	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet105_88_76_15_PFBTagDeepCSV_1p3_VBF2	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet111_90_80_15	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet111_90_80_15_DoublePFBTagDeepCSV_1p3_7p7_VBF1	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet111_90_80_15_PFBTagDeepCSV_1p3_VBF2	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet98_83_71_15	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet98_83_71_15_DoublePFBTagDeepCSV_1p3_7p7_VBF1	Bool_t	Trigger/flag bit (process: HLT)
HLT_QuadPFJet98_83_71_15_PFBTagDeepCSV_1p3_VBF2	Bool_t	Trigger/flag bit
HLT_Random	Bool_t	(process: HLT) Trigger/flag bit
HLT_Rsq0p35	Bool_t	(process: HLT) Trigger/flag bit

		(process: HLT)
HLT_Rsq0p40	Bool_t	Trigger/flag bit (process: HLT)
HLT_RsqMR300_Rsq0p09_MR200	Bool_t	Trigger/flag bit (process: HLT)
HLT_RsqMR300_Rsq0p09_MR200_4jet	Bool_t	Trigger/flag bit (process: HLT)
HLT_RsqMR320_Rsq0p09_MR200	Bool_t	Trigger/flag bit (process: HLT)
HLT_RsqMR320_Rsq0p09_MR200_4jet	Bool_t	Trigger/flag bit (process: HLT)
HLT_SingleJet30_Mu12_SinglePFJet40	Bool_t	Trigger/flag bit (process: HLT)
HLT_SinglePhoton10_Eta3p1ForPPRef	Bool_t	Trigger/flag bit (process: HLT)
HLT_SinglePhoton20_Eta3p1ForPPRef	Bool_t	Trigger/flag bit (process: HLT)
HLT_SinglePhoton30_Eta3p1ForPPRef	Bool_t	Trigger/flag bit (process: HLT)
HLT_Tau3Mu_Mu7_Mu1_TkMu1_IsoTau15	Bool_t	Trigger/flag bit (process: HLT)
HLT_Tau3Mu_Mu7_Mu1_TkMu1_IsoTau15_Charge1	Bool_t	Trigger/flag bit (process: HLT)
HLT_Tau3Mu_Mu7_Mu1_TkMu1_Tau15	Bool_t	Trigger/flag bit (process: HLT)
HLT_Tau3Mu_Mu7_Mu1_TkMu1_Tau15_Charge1	Bool_t	Trigger/flag bit (process: HLT)
HLT_TkMu100	Bool_t	Trigger/flag bit (process: HLT)
HLT_Trimuon5_3p5_2_Upsilon_Muon	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrimuonOpen_5_3p5_2_Upsilon_Muon	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleJet110_35_35_Mjj650_PFMET110	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleJet110_35_35_Mjj650_PFMET120	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleJet110_35_35_Mjj650_PFMET130	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleMu_10_5_5_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleMu_12_10_5	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleMu_5_3_3_Mass3p8_DCA	Bool_t	Trigger/flag bit (process: HLT)
HLT_TripleMu_5_3_3_Mass3p8_DZ	Bool_t	Trigger/flag bit (process: HLT)
HLT_TriplePhoton_20_20_20_CaloIdLV2	Bool_t	Trigger/flag bit (process: HLT)
HLT_TriplePhoton_20_20_20_CaloIdLV2_R9IdVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_TriplePhoton_30_30_10_CaloIdLV2	Bool_t	Trigger/flag bit (process: HLT)
HLT_TriplePhoton_30_30_10_CaloIdLV2_R9IdVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_TriplePhoton_35_35_5_CaloIdLV2_R9IdVL	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrkMu12_DoubleTrkMu5NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrkMu16NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrkMu16_DoubleTrkMu6NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrkMu17_DoubleTrkMu8NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_TrkMu6NoFiltersNoVtx	Bool_t	Trigger/flag bit (process: HLT)
HLT_UncorrectedJetE30_NoBPTX	Bool_t	Trigger/flag bit (process: HLT)
HLT_UncorrectedJetE30_NoBPTX3BX	Bool_t	Trigger/flag bit (process: HLT)
		(p. 00033. IIL1)

HLT_UncorrectedJetE60_NoBPTX3BX	Bool_t	Trigger/flag bit (process: HLT)
HLT_UncorrectedJetE70_NoBPTX3BX	Bool_t	Trigger/flag bit (process: HLT)
HLT_VBF_DoubleLooseChargedIsoPFTauHPS20_Trk1_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_VBF_DoubleMediumChargedIsoPFTauHPS20_Trk1_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_VBF_DoubleTightChargedIsoPFTauHPS20_Trk1_eta2p1	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_Alignment	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_Beamspot	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_FirstBXAfterTrain	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_FirstCollisionAfterAbortGap	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_FirstCollisionInTrain	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_IsolatedBunches	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_LastCollisionInTrain	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part0	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part1	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part2	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part3	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part4	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part5	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part6	Bool_t	Trigger/flag bit (process: HLT)
HLT_ZeroBias_part7	Bool_t	Trigger/flag bit (process: HLT)

HLTriggerFinalPath [back to top]

Object property	Туре	Description	
HLTriggerFinalPath	Bool_t	Trigger/flag bit (process: HLT)	

HLTriggerFirstPath [back to top]

Object property	Туре	Description
HLTriggerFirstPath	Bool_t	Trigger/flag bit (process: HLT)

HTXS [back to top]

Object property	Туре	Description
HTXS_Higgs_pt	Float_t	pt of the Higgs boson as identified in HTXS
HTXS_Higgs_y	Float_t	rapidity of the Higgs boson as identified in HTXS
HTXS_njets25	UChar_t	number of jets with pt>25 GeV as identified in HTXS
HTXS_njets30	UChar_t	number of jets with pt>30 GeV as identified in HTXS
HTXS_stage1_1_cat_pTjet25GeV	Int_t	HTXS stage-1.1 category(jet pt>25 GeV)
HTXS_stage1_1_cat_pTjet30GeV	Int_t	HTXS stage-1.1 category(jet pt>30 GeV)
HTXS_stage1_1_fine_cat_pTjet25GeV	Int_t	HTXS stage-1.1-fine category(jet pt>25 GeV)
HTXS_stage1_1_fine_cat_pTjet30GeV	Int_t	HTXS stage-1.1-fine category(jet pt>30 GeV)
HTXS_stage1_2_cat_pTjet25GeV	Int_t	HTXS stage-1.2 category(jet pt>25 GeV)
HTXS_stage1_2_cat_pTjet30GeV	Int_t	HTXS stage-1.2 category(jet pt>30 GeV)
HTXS_stage1_2_fine_cat_pTjet25GeV	Int_t	HTXS stage-1.2-fine category(jet pt>25 GeV)
HTXS_stage1_2_fine_cat_pTjet30GeV	Int_t	HTXS stage-1.2-fine category(jet pt>30 GeV)
HTXS_stage_0	Int_t	HTXS stage-0 category
HTXS_stage_1_pTjet25	Int_t	HTXS stage-1 category (jet pt>25 GeV)
HTXS_stage_1_pTjet30	Int_t	HTXS stage-1 category (jet pt>30 GeV)

IsoTrack [back to top]

Object property	Туре	Description
IsoTrack_dxy	Float_t	dxy (with sign) wrt first PV, in cm
IsoTrack_dz	Float_t	dz (with sign) wrt first PV, in cm
IsoTrack_eta	Float_t	eta
IsoTrack_fromPV	Int_t	isolated track comes from PV
IsoTrack_isFromLostTrack	Bool_t	if isolated track comes from a lost track
IsoTrack_isHighPurityTrack	Bool_t	track is high purity
IsoTrack_isPFcand	Bool_t	if isolated track is a PF candidate
<pre>IsoTrack_miniPFRelIso_all</pre>	Float_t	mini PF relative isolation, total (with scaled rho*EA PU corrections)
IsoTrack_miniPFRelIso_chg	Float_t	mini PF relative isolation, charged component
IsoTrack_pdgId	Int_t	PDG id of PF cand
IsoTrack_pfRelIso03_all	Float_t	PF relative isolation dR=0.3, total (deltaBeta corrections)
IsoTrack_pfRelIso03_chg	Float_t	PF relative isolation dR=0.3, charged component
IsoTrack_phi	Float_t	phi
IsoTrack_pt	Float_t	pt
nIsoTrack	UInt_t	isolated tracks after basic selection (((pt>5 && (abs(pdgId) == 11 $ $ abs(pdgId) == 13)) $ $ pt > 10) && (abs(pdgId) < 15 $ $ abs(eta) < 2.5) && abs(dxy) < 0.2 && abs(dz) < 0.1 && ((pfIsolationDR03().chargedHadronIso < 5 && pt < 25) $ $ pfIsolationDR03().chargedHadronIso/pt < 0.2)) and lepton veto

Jet [back to top]

Object property	Туре	Description
Jet_area	Float_t	jet catchment area, for JECs
Jet_bRegCorr	Float_t	pt correction for b-jet energy regression
Jet_bRegRes	Float_t	res on pt corrected with b-jet regression
Jet_btagCMVA	Float_t	CMVA V2 btag discriminator
Jet_btagCSVV2	Float_t	pfCombinedInclusiveSecondaryVertexV2 b-tag discriminator (aka CSVV2
Jet_btagDeepB	Float_t	DeepCSV b+bb tag discriminator
Jet_btagDeepC	Float_t	DeepCSV charm btag discriminator
Jet_btagDeepFlavB	Float_t	DeepFlavour b+bb+lepb tag discriminator
Jet_btagDeepFlavC	Float_t	DeepFlavour charm tag discriminator
Jet_cRegCorr	Float_t	pt correction for c-jet energy regression
Jet_cRegRes	Float_t	res on pt corrected with c-jet regression
Jet_chEmEF	Float_t	charged Electromagnetic Energy Fraction
Jet_chFPV0EF	Float_t	charged fromPV==0 Energy Fraction (energy excluded from CHS jets). Previously called betastar.
Jet_chFPV1EF	Float_t	charged fromPV==1 Energy Fraction (component of the total charged Energy Fraction).
Jet_chFPV2EF	Float_t	charged fromPV==2 Energy Fraction (component of the total charged Energy Fraction).
Jet_chFPV3EF	Float_t	charged fromPV==3 Energy Fraction (component of the total charged Energy Fraction).
Jet_chHEF	Float_t	charged Hadron Energy Fraction
Jet_cleanmask	UChar_t	simple cleaning mask with priority to leptons
Jet_electronIdx1	Int_t(index to Electron)	index of first matching electron
Jet_electronIdx2	Int_t(index to Electron)	index of second matching electron
Jet_eta	Float_t	eta
Jet_genJetIdx	<pre>Int_t(index to Genjet)</pre>	index of matched gen jet
Jet_hadronFlavour	Int_t	flavour from hadron ghost clustering
Jet_jetId	Int_t	Jet ID flags bit1 is loose (always false in 2017 since it does not exist), bit2 is tight, bit3 is tightLepVeto
Jet_mass	Float_t	mass
Jet_muEF	Float_t	muon Energy Fraction
Jet_muonIdx1	<pre>Int_t(index to Muon)</pre>	index of first matching muon
Jet_muonIdx2	<pre>Int_t(index to Muon)</pre>	index of second matching muon
Jet_muonSubtrFactor	Float_t	1-(muon-subtracted raw pt)/(raw pt)
Jet_nConstituents	Int_t	Number of particles in the jet
Jet_nElectrons	Int_t	number of electrons in the jet
Jet nMuons	Int_t	number of muons in the jet

Jet_neEmEF	Float_t	neutral Electromagnetic Energy Fraction
Jet_neHEF	Float_t	neutral Hadron Energy Fraction
Jet_partonFlavour	Int_t	flavour from parton matching
Jet_phi	Float_t	phi
Jet_pt	Float_t	pt
Jet_puId	Int_t	Pilup ID flags with 80X (2016) training
Jet_puIdDisc	Float_t	Pilup ID discriminant with 102X (2018) training
Jet_qgl	Float_t	Quark vs Gluon likelihood discriminator
Jet_rawFactor	Float_t	1 - Factor to get back to raw pT
nJet	UInt_t	slimmedJets, i.e. ak4 PFJets CHS with JECs applied, after basic selection (pt > 15)

# L1 [back to top]

Object property	Туре	Description
L1_AlwaysTrue	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_AND_Ref1_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_AND_Ref3_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_AND_Ref4_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_BeamGas_B1_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_BeamGas_B2_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_BeamGas_Ref1_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_BeamGas_Ref2_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_NotOR_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_OR_Ref3_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_OR_Ref4_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BPTX_RefAND_VME	Bool_t	Trigger/flag bit (process: DQM)
L1_BptxMinus	 Bool_t	Trigger/flag bit (process: DQM)
L1_BptxOR	 Bool_t	Trigger/flag bit (process: DQM)
L1_BptxPlus	Bool_t	Trigger/flag bit (process: DQM)
L1_BptxX0R	Bool_t	Trigger/flag bit (process: DQM)
L1_CDC_SingleMu_3_er1p2_TOP120_DPHI2p618_3p142	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG8er2p5_HTT260er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG8er2p5_HTT280er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG8er2p5_HTT300er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG8er2p5_HTT320er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG8er2p5_HTT340er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_15_10_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_20_10_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_22_10_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_25_12_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_25_14_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_27_14_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_LooseIso20_10_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_LooseIso22_10_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_LooseIso22_12_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleEG_LooseIso25_12_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau28er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau28er2p1_Mass_Max80	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau28er2p1_Mass_Max90	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau30er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau30er2p1_Mass_Max80	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau30er2p1_Mass_Max90	Bool t	Trigger/flag bit (process: DQM)
	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleIsoTau32er2p1 L1_DoubleIsoTau34er2p1	Bool_t	Trigger/flag bit (process: DQM)  Trigger/flag bit (process: DQM)
<u> </u>		
L1_DoubleIsoTau36er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet100er2p3_dEta_Max1p6	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet100er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet112er2p3_dEta_Max1p6	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet120er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet150er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet30er2p5_Mass_Min150_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet30er2p5_Mass_Min200_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet30er2p5_Mass_Min250_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet30er2p5_Mass_Min300_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)

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L1_DoubleJet30er2p5_Mass_Min330_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet30er2p5_Mass_Min360_dEta_Max1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet35_Mass_Min450_IsoTau45_RmOvlp	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet40er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_100_30_DoubleJet30_Mass_Min620	Bool_t	Trigger/flag bit (process: DQM)
L1 DoubleJet 110 35 DoubleJet35 Mass Min620		
	Bool_t	33 3 (1 2 7
L1_DoubleJet_115_40_DoubleJet40_Mass_Min620	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_115_40_DoubleJet40_Mass_Min620_Jet60TT28	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_120_45_DoubleJet45_Mass_Min620	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_120_45_DoubleJet45_Mass_Min620_Jet60TT28	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_80_30_Mass_Min420_DoubleMu0_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_80_30_Mass_Min420_IsoTau40_RmOvlp	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_80_30_Mass_Min420_Mu8	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleJet_90_30_DoubleJet30_Mass_Min620	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleLooseIsoEG22er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleLooseIsoEG24er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0	Bool_t	Trigger/flag bit (process: DQM)
		Trigger/flag bit (process: DQM)
L1_DoubleMu0_Mass_Min1	Bool_t	00 0 11
L1_DoubleMu0_0Q	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0_SQ_OS	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0_dR_Max1p6_Jet90er2p5_dR_Max0p8	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er1p4_SQ_OS_dR_Max1p4	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er1p5_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er1p5_SQ_OS	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er1p5_SQ_OS_dR_Max1p4	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er1p5_SQ_dR_Max1p4	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er2p0_SQ_OS_dR_Max1p4	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu0er2p0_SQ_dR_Max1p4	Bool_t	Trigger/flag bit (process: DQM)
		- 1, - 1,
L1_DoubleMu18er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_OS_DoubleEG7p5Upsilon	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_ETMHF50_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_ETMHF50_Jet60er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_ETMHF50_Jet60er2p5_OR_DoubleJet40er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_ETMHF60_Jet60er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_HTT220er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_HTT240er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_SQ_HTT260er	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu3_dR_Max1p6_Jet90er2p5_dR_Max0p8	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4_SQ_EG9er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4_SQ_OS	Bool t	Trigger/flag bit (process: DQM)
L1_DoubleMu4_SQ_OS_dR_Max1p2	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4p5_SQ_OS	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4p5_SQ_OS_dR_Max1p2	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4p5er2p0_SQ_OS	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4p5er2p0_SQ_OS_Mass7to18	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu4p5er2p0_SQ_OS_Mass_Min7	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu5Upsilon_OS_DoubleEG3	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu5_SQ_EG9er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu8_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu9_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu_12_5	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu_15_5_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu_15_7	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu_15_7_Mass_Min1	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleMu_15_7_Muss_MINI L1_DoubleMu_15_7_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_DoubleTau70er2p1	Bool_t	
-		Trigger/flag bit (process: DQM)
L1_ETM120	Bool_t	Trigger/flag bit (process: DQM)
L1_ETM150	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF100	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF100_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF110	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF110_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF110_HTT60er_NotSecondBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)

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L1_ETMHF120	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF120_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF120_NotSecondBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF130	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF130_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF140	Bool_t	Trigger/flag bit (process: DOM)
L1_ETMHF150	Bool_t	Trigger/flag bit (process: DQM)
L1_ETMHF90_HTT60er	Bool_t	Trigger/flag bit (process: DQM)
L1 ETT1200	Bool_t	Trigger/flag bit (process: DQM)
L1 ETT1600	Bool_t	Trigger/flag bit (process: DQM)
L1_ETT2000	Bool_t	Trigger/flag bit (process: DQM)
L1 FirstBunchAfterTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_FirstBunchBeforeTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_FirstBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_FirstCollisionInOrbit	Bool_t	Trigger/flag bit (process: DQM)
		Trigger/flag bit (process: DQM)
L1_FirstCollisionInTrain	Bool_t	
L1_HCAL_LaserMon_Trig	Bool_t	Trigger/flag bit (process: DQM)
L1_HCAL_LaserMon_Veto	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT120er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT160er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT200er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT255er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT280er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT280er_QuadJet_70_55_40_35_er2p4	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT320er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT320er_QuadJet_70_55_40_40_er2p4	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT320er_QuadJet_80_60_er2p1_45_40_er2p3	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT320er_QuadJet_80_60_er2p1_50_45_er2p3	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT360er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT400er	Bool_t	Trigger/flag bit (process: DQM)
L1_HTT450er	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoEG32er2p5_Mt40	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoEG32er2p5_Mt44	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoEG32er2p5_Mt48	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoTau40er2p1_ETMHF100	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoTau40er2p1_ETMHF110	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoTau40er2p1_ETMHF80	Bool_t	Trigger/flag bit (process: DQM)
L1_IsoTau40er2p1_ETMHF90	Bool_t	Trigger/flag bit (process: DQM)
L1_IsolatedBunch	Bool_t	Trigger/flag bit (process: DQM)
L1_LastBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_LastCollisionInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG22er2p1_IsoTau26er2p1_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG22er2p1_Tau70er2p1_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1 LooseIsoEG24er2p1 HTT100er	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG24er2p1_IsoTau27er2p1_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG26er2p1_HTT100er	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG26er2p1_Jet34er2p5_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG28er2p1_HTT100er	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG28er2p1_Jet34er2p5_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG30er2p1_HTT100er	Bool_t	Trigger/flag bit (process: DQM)
L1_LooseIsoEG30er2p1_HTT100er  L1_LooseIsoEG30er2p1_Jet34er2p5_dR_Min0p3	Bool_t	Trigger/flag bit (process: DQM)
L1_L00Se1S0E0S0E12P1_SetS4e12P3_uk_M1Nep3 L1_MinimumBiasHF0_AND_BptxAND	Bool_t	Trigger/flag bit (process: DQM)
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L1_Mu10er2p3_Jet32er2p3_dR_Max0p4_DoubleJet32er2p3_dEta_Max1p6	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu12er2p3_Jet40er2p1_dR_Max0p4_DoubleJet40er2p1_dEta_Max1p6	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu12er2p3_Jet40er2p3_dR_Max0p4_DoubleJet40er2p3_dEta_Max1p6	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu18er2p1_Tau24er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu18er2p1_Tau26er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu20_EG10er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau28er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau30er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau32er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau34er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau36er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu22er2p1_IsoTau40er2p1	Bool_t	Trigger/flag bit (process: DQM)

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L1_Mu22er2p1_Tau70er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet120er2p5_dR_Max0p4	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet120er2p5_dR_Max0p8	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet16er2p5_dR_Max0p4	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet30er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet35er2p5_dR_Max0p4	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet60er2p5_dR_Max0p4	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3_Jet80er2p5_dR_Max0p4	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3er1p5_Jet100er2p5_ETMHF40	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu3er1p5_Jet100er2p5_ETMHF50	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu5_EG23er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu5_LooseIsoEG20er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu6_DoubleEG10er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu6_DoubleEG12er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu6_DoubleEG15er2p5	Bool_t	Trigger/flag bit (process: DQM)
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L1_Mu6_DoubleEG17er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu6_HTT240er	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu6_HTT250er	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu7_EG20er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu7_EG23er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu7_LooseIsoEG20er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_Mu7_LooseIsoEG23er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_NotBptxOR	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadJet36er2p5_IsoTau52er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadJet60er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadJet_95_75_65_20_DoubleJet_75_65_er2p5_Jet20_FWD3p0	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadMu0	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadMu0_0Q	Bool_t	Trigger/flag bit (process: DQM)
L1_QuadMu0_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_SecondBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_SecondLastBunchInTrain	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG10er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG15er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG26er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG28_FWD2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG28er1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG28er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG28er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG34er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG36er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG38er2p5	Bool_t	Trigger/flag bit (process: DOM)
L1_SingleEG40er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG42er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1 SingleEG45er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG50	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG60	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleEG8er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG24er1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG24er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG26er1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoE626er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG26er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoE628_FWD2p5		3 11 17
	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG28er1p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG28er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG28er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG30er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG30er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG32er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG32er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleIsoEG34er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleJet10erHE	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleJet120	Bool_t	Trigger/flag bit (process: DQM)

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L1_SingleJet120_FWD3p0	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet120er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet12erHE	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet140er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet140er2p5_ETMHF70	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet140er2p5_ETMHF80	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet140er2p5_ETMHF90	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet160er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet180	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet180er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet200	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet20er2p5_NotBptxOR	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet20er2p5_NotBptxOR_3BX	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet35	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet35_FWD3p0	Bool_t Trigger/flag bit (process: DQM)
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L1_SingleJet35er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet43er2p5_NotBptxOR_3BX	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet46er2p5_NotBptxOR_3BX	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet60	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet60_FWD3p0	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet60er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet8erHE	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet90	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet90_FWD3p0	Bool_t Trigger/flag bit (process: DQM)
L1_SingleJet90er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG26er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG26er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG28_FWD2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG28er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG28er2p1	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG28er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleLooseIsoEG30er1p5	Bool_t Trigger/flag bit (process: DQM)
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L1_SingleLooseIsoEG30er2p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu0_BMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu0_DQ	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu0_EMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu0_OMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu10er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu12_DQ_BMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu12_DQ_EMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu12_DQ_OMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu12er1p5	Bool_t Trigger/flag bit (process: DQM)
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L1_SingleMu14er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu15_DQ	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu16er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu18	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu18er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu20	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu22	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu22_BMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu22_EMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu22_OMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu25	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu3	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu6er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu7	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu7_DQ	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu7er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu8er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMu9er1p5	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMuCosmics	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMuCosmics_BMTF	Bool_t Trigger/flag bit (process: DQM)
L1_SingleMuCosmics_EMTF	Bool_t Trigger/flag bit (process: DQM)
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L1_SingleMuOpen_NotBptxOR L1_SingleMuOpen_NotBptxOR 3BX Bool_t Trigger/flag bit (process: DQM) L1_SingleMuOpen_ertp4_NotBptxOR 3BX Bool_t Trigger/flag bit (process: DQM) L1_SingleMuOpen_ertp4_NotBptxOR 3BX Bool_t Trigger/flag bit (process: DQM) L1_SingleTau130er2p1 Bool_t Trigger/flag bit (process: DQM) L1_SingleTau130er2p1 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_1 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_2 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_4 Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_4 Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_16_12_8_er2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_16_12_8_er2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_18_17_8_er2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleB6_18_0_7_8_er2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleB6_0_8_7_8_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0_0	L1_SingleMuCosmics_OMTF	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleMuOpen_er1p1_NotBptxOR_3BX  Bool_t Trigger/flag bit (process: DQM) L1_SingleMuOpen_er1p4_NotBptxOR_3BX  Bool_t Trigger/flag bit (process: DQM) L1_SingleTau120er2p1  Bool_t Trigger/flag bit (process: DQM) L1_SingleTau130er2p1  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_1  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_2  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_4  Bool_t Trigger/flag bit (process: DQM) L1_TripleE61e0.12_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_16_12_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_16_15_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleE6_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleE1_168_8_7_5_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleJet_195_75_65_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleMu0_0Q  Bool_t Trigger/flag bit (process: DQM) L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM) L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM) L1_TripleMu5_SQ_3SQ_0OQ_DoubleMu5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (proc	L1_SingleMuOpen	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleMuOpen_er1p4_NotBptxOR_3BX  L1_SingleTaul2Ger2p1  Bool_t Trigger/flag bit (process: DQM) L1_SingleTaul3Ger2p1  Bool_t Trigger/flag bit (process: DQM) L1_SingleTaul3Ger2p1  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_1  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_2  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM) L1_TOTEM_4  Bool_t Trigger/flag bit (process: DQM) L1_TripleEG_16_12_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleEG_16_12_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleEG_16_13_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleEG_18_13_8_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleEG_18_13_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleJet_100_80_70_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80 L1_TripleBud_100_80 L1_TripleBud_100_80 L1_TripleBud_100_80 L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80 L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  L1_TripleBud_100_80  Bool_t Trigger/flag bit (process: DQM) L1_TripleBud_100_80  L1_TripleBud_100_80  L1_TripleBud_100_80	L1_SingleMuOpen_NotBptxOR	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleTau120er2p1	L1_SingleMuOpen_er1p1_NotBptxOR_3BX	Bool_t	Trigger/flag bit (process: DQM)
L1_SingleTau130er2p1  L1_TOTEM_1  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_2  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_4  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG16er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_12_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_15_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_7_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_7_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleBd_10_8_07_0_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_10_8_07_0_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_0_S0_T_5_05_DoubleJet_76_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_0_Q0  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_0_SQ_SQ_0_O_DoubleMu_5_3_SQ_0S_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0O_DoubleMu_5_3_SQ_0S_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ_D_DoubleMu_5_2P5_0Q_0S_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_35_2P5_DoubleMu_5_2P5_0Q_0S_Mass_5to17  Boo	L1_SingleMuOpen_er1p4_NotBptxOR_3BX	Bool_t	Trigger/flag bit (process: DQM)
L1_TOTEM_1  L1_TOTEM_2  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_3  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_4  Bool_t Trigger/flag bit (process: DQM)  L1_TOTEM_4  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG16er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16e_12_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_13_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_105_85_75_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_08_0_ToubleJet_85_75_e5_e5_e5_e5_e5_e5_e5_e5_e5_e5_e5_e5_e5	L1_SingleTau120er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_TOTEM_2 BOOLT Trigger/flag bit (process: DQM) L1_TOTEM_3 BOOLT Trigger/flag bit (process: DQM) L1_TOTEM_4 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.16er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.16.12.8_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.16.13.8_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.16.13.8_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.18.17.8_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeEG.18.18_12_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeG.18.18_12_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeJet.100.80.70 DoubleJet.80_70_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeJet.105_85.75_DoubleJet.85_75_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeJet.95_75_65_DoubleJet.75_65_er2p5 BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu0 BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu0_OQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu0_SQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu3 BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu3.SQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu3.SQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.SQ.3SQ_0OQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.SQ.3SQ_0OQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.SQ.3SQ_0OQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.SQ.3SQ_0OQ_DoubleMu5.3_SQ_OS_Mass_Max9 BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.S.3.3_SQ BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.S.3.5_SD_DoubleMu5.2P5.OS_Mass_5to17 BOOLT Trigger/flag bit (process: DQM) L1_TripLeMu5.S.3.5_SD_	L1_SingleTau130er2p1	Bool_t	Trigger/flag bit (process: DQM)
L1_TOTEM_3 L1_TOTEM_4 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG16er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_16_12_8_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_16_15_8_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_16_15_8_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_18_17_8_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_18_18_12_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleEG_18_18_12_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleJet_109_80_70_DoubleJet_80_70_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleJet_195_85_75_DoubleJet_85_75_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleJet_95_75_65_DoubleJet_75_65_er2p5 BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu0 BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu0_SQ BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu0_SQ BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu3 BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu5SQ_3SQ_0OQ BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9 BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_3Q BOOL_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_3Q BOOL_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_SQ_OS_Mass_Sto17 BOOL_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_SQ_OS_Mass_Sto17 BOOL_t Trigger/flag bit (process: DQM) L1_TripleMu_5_5_3_S_DO_DoubleMu_5_2P5_OS_Mass_Sto17 BOOL_t Trigger/flag bit (pro	L1_TOTEM_1	Bool_t	Trigger/flag bit (process: DQM)
L1_TOTEM_4  L1_TripleEG16er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_12_B_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_13_B_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_16_13_B_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_17_B_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_65_DoubleJet_75_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_SQ_3SQ_0OQ_DoubleMu5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_SQ_3SQ_0OQ_DoubleMu5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_S3_3SQ_0O_DoubleMu5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_3_3_SQ_DoubleMu5_2_P5_OS_Mass_Sto17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1	L1_TOTEM_2	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleEG16er2p5	L1_TOTEM_3	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleEG_16_12_8_er2p5  L1_TripleEG_16_15_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_105_85_75_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_65_DoubleJet_75_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_QQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_SQ_3SQ_0QQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_SQ_3SQ_0QQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_SQ_3SQ_0QD  L1_TripleMu5_S3_3SQ_0DoubleMu_5_3_SQ_0S_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_3_3_SQ_D_DoubleMu5_2_DS_DS_Mass_Sto17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu5_5_3_3_SQ_DoubleMu5_2_DS_DS_Mass_Sto17  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag	L1_TOTEM_4	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleEG_16_15_8_er2p5  L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_105_85_75_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_65_DoubleJet_75_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2_p5_DoubleMu_5_2_p5_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2_p5_DoubleMu_5_2_p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2_p5_DoubleMu_5_2_p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3_5_2_p5_DoubleMu_5_2_p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)	L1_TripleEG16er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleEG_18_17_8_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleEG_18_18_12_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_195_75_50_bubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_95_75_65_DoubleJet_75_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_0Q  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_SSQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_SSQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_SSQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0O_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_35_2p5_DoubleMu_5_2p5_0S_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3 Bool_t Trigger/flag bit (process: DQM)	L1_TripleEG_16_12_8_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleEG_18_18_12_er2p5  L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_0oubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_65_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_0Q  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_S_2_D5_DoubleMu_5_2_D5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_S_DoubleMu_5_2_D5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_S_DoubleMu_5_2_D5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3_S_DoubleMu_5_2_D5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3_S_DOUBLEMu_5_2_D5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)	L1_TripleEG_16_15_8_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleJet_100_80_70_boubleJet_80_70_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_105_85_75_boubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJet_95_75_65_boubleJet_75_65_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SO_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SO_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)	L1_TripleEG_18_17_8_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleJet_105_85_75_DoubleJet_85_75_er2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleJum0  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OD_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SOQ_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)	L1_TripleEG_18_18_12_er2p5	Bool_t	00 0 11
L1_TripleMue	L1_TripleJet_100_80_70_DoubleJet_80_70_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu0_OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu0_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0OQ DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)	L1_TripleJet_105_85_75_DoubleJet_85_75_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu0_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu3 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_00Q Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_00Q Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_00Q_DoubleMu_5_3_SQ_OS_Mass_Max9 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3 BOOl_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3p5_2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_0S_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_0Q_S_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_0S_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_5_3 Bool_t Trigger/flag bit (process: DQM) L1_UnpairedBunchBptxMinus Bool_t Trigger/flag bit (process: DQM) L1_UnpairedBunchBptxPlus Bool_t Trigger/flag bit (process: DQM)	L1_TripleJet_95_75_65_DoubleJet_75_65_er2p5	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu5SQ_3SQ_0OQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_0OQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3_3_SQ Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3p5_2p5 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM) L1_TripleMu_5_5_3 Bool_t Trigger/flag bit (process: DQM) L1_UnpairedBunchBptxMinus Bool_t Trigger/flag bit (process: DQM) L1_UnpairedBunchBptxPlus Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu0	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu3_SQ	L1_TripleMu0_0Q	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5SQ_3SQ_00Q Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_00Q_DoubleMu_5_3SQ_0S_Mass_Max9 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2p5 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17 Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3 Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu0_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_OQ_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)  Trigger/flag bit (process: DQM)	L1_TripleMu3	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5SQ_3SQ_0OQ_DoubleMu_5_3_SQ_OS_Mass_Max9  L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu3_SQ	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9  L1_TripleMu_5_3_3  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu_5SQ_3SQ_00Q	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5_3_3  L1_TripleMu_5_3_3_SQ  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu_5SQ_3SQ_00Q_DoubleMu_5_3_SQ_0S_Mass_Max9	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5_3_3_SQ  L1_TripleMu_5_3p5_2p5  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu_5SQ_3SQ_0_DoubleMu_5_3_SQ_OS_Mass_Max9	Bool_t	Trigger/flag bit (process: DQM)
L1_TripleMu_5_3p5_2p5Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_3p5_2p5_OQ_DoubleMu_5_2p5_OQ_OS_Mass_5to17Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_5_3Bool_tTrigger/flag bit (process: DQM)L1_UnpairedBunchBptxMinusBool_tTrigger/flag bit (process: DQM)L1_UnpairedBunchBptxPlusBool_tTrigger/flag bit (process: DQM)L1_ZeroBiasBool_tTrigger/flag bit (process: DQM)		Bool_t	30 0 11
L1_TripleMu_5_3p5_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_3p5_2p5_OQ_DoubleMu_5_2p5_OQ_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17  Bool_t Trigger/flag bit (process: DQM)  L1_TripleMu_5_5_3  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxMinus  Bool_t Trigger/flag bit (process: DQM)  L1_UnpairedBunchBptxPlus  Bool_t Trigger/flag bit (process: DQM)  L1_ZeroBias  Bool_t Trigger/flag bit (process: DQM)	L1_TripleMu_5_3_3_SQ	Bool_t	30 0 11
L1_TripleMu_5_3p5_2p5_0Q_DoubleMu_5_2p5_0Q_OS_Mass_5to17Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17Bool_tTrigger/flag bit (process: DQM)L1_TripleMu_5_5_3Bool_tTrigger/flag bit (process: DQM)L1_UnpairedBunchBptxMinusBool_tTrigger/flag bit (process: DQM)L1_UnpairedBunchBptxPlusBool_tTrigger/flag bit (process: DQM)L1_ZeroBiasBool_tTrigger/flag bit (process: DQM)			00 0 11
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L1_UnpairedBunchBptxMinusBool_tTrigger/flag bit (process: DQM)L1_UnpairedBunchBptxPlusBool_tTrigger/flag bit (process: DQM)L1_ZeroBiasBool_tTrigger/flag bit (process: DQM)	L1_TripleMu_5_4_2p5_DoubleMu_5_2p5_OS_Mass_5to17	Bool_t	00 0 11 0 7
L1_UnpairedBunchBptxPlusBool_tTrigger/flag bit (process: DQM)L1_ZeroBiasBool_tTrigger/flag bit (process: DQM)			30 0 11
L1_ZeroBias Bool_t Trigger/flag bit (process: DQM)	L1_UnpairedBunchBptxMinus	Bool_t	
	'		00 0 11 0 7
L1_ZeroBias_copy Bool_t Trigger/flag bit (process: DQM)	L1_ZeroBias	Bool_t	
	L1_ZeroBias_copy	Bool_t	Trigger/flag bit (process: DQM)

L1Reco [back to top]

Object property	Туре	Description
L1Reco_step	Bool_t	Trigger/flag bit (process: RECO)

L1simulation [back to top]

Object property	Туре	Description
L1simulation_step	Bool_t	Trigger/flag bit (process: HLT)

LHE [back to top]

Object property	Туре	Description
LHE_AlphaS	Float_t	Per-event alphaS
LHE_HT	Float_t	HT, scalar sum of parton pTs at LHE step
LHE_HTIncoming	Float_t	HT, scalar sum of parton pTs at LHE step, restricted to partons
LHE_Nb	UChar_t	Number of b partons at LHE step
LHE_NC	UChar_t	Number of c partons at LHE step
LHE_Nglu	UChar_t	Number of gluon partons at LHE step
LHE_Njets	UChar_t	Number of jets (partons) at LHE step
LHE_NpL0	UChar_t	number of partons at LO
LHE_NpNLO	UChar_t	number of partons at NLO
LHE_Nuds	UChar_t	Number of u,d,s partons at LHE step
LHE_Vpt	Float_t	pT of the W or Z boson at LHE step
LHE_NPLO LHE_NPNLO LHE_Nuds	UChar_t UChar_t UChar_t	number of partons at LO number of partons at NLO Number of u,d,s partons at LHE step

LHEPart [back to top]

Object property Ty	/pe	Description
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LHEPart_eta	Float_t	Pseodorapidity of LHE particles
LHEPart_incomingpz	Float_t	Pz of incoming LHE particles
LHEPart_mass	Float_t	Mass of LHE particles
LHEPart_pdgId	Int_t	PDG ID of LHE particles
LHEPart_phi	Float_t	Phi of LHE particles
LHEPart_pt	Float_t	Pt of LHE particles
LHEPart_spin	Int_t	Spin of LHE particles
LHEPart_status	Int_t	LHE particle status; -1:incoming, 1:outgoing
nLHEPart	UInt_t	

# LHEPdfWeight [back to top]

Object property	Туре	Description
LHEPdfWeight	Float_t	
nLHEPdfWeight	UInt_t	

# LHEReweightingWeight [back to top]

Object property	Туре	Description
LHEReweightingWeight	Float_t	
nLHEReweightingWeight	UInt_t	,

# LHEScaleWeight [back to top]

Object property	Туре	Description
LHEScaleWeight	Float_t	
nLHEScaleWeight	UInt_t	

# LHEWeight [back to top]

Object property	Туре	Description
LHEWeight_originalXWGTUP	Float_t	Nominal event weight in the LHE file

#### MET [back to top]

Object property	Туре	Description
MET_MetUnclustEnUpDeltaX	Float_t	Delta (METx_mod-METx) Unclustered Energy Up
MET_MetUnclustEnUpDeltaY	Float_t	Delta (METy_mod-METy) Unclustered Energy Up
MET_covXX	Float_t	xx element of met covariance matrix
MET_covXY	Float_t	xy element of met covariance matrix
MET_covYY	Float_t	yy element of met covariance matrix
MET_fiducialGenPhi	Float_t	phi
MET_fiducialGenPt	Float_t	pt
MET_phi	Float_t	phi
MET_pt	Float_t	pt
MET_significance	Float_t	MET significance
MET_sumEt	Float_t	scalar sum of Et
MET_sumPtUnclustered	Float_t	sumPt used for MET significance

# Muon [back to top]

Object property	Туре	Description
Muon_charge	Int_t	electric charge
Muon_cleanmask	UChar_t	simple cleaning mask with priority to leptons
Muon_dxy	Float_t	dxy (with sign) wrt first PV, in cm
Muon_dxyErr	Float_t	dxy uncertainty, in cm
Muon_dxybs	Float_t	dxy (with sign) wrt the beam spot, in cm
Muon_dz	Float_t	dz (with sign) wrt first PV, in cm
Muon_dzErr	Float_t	dz uncertainty, in cm
Muon_eta	Float_t	eta
Muon_fsrPhotonIdx	Int_t(index to Fsrphoton)	Index of the associated FSR photon
Muon_genPartFlav	UChar_t	Flavour of genParticle for MC matching to status==1 muons: 1 = prompt muon (including gamma*->mu mu), 15 = muon from prompt tau, 5 = muon from b, 4 = muon from c, 3 = muon from light or unknown, 0 = unmatched
Muon_genPartIdx	<pre>Int_t(index to Genpart)</pre>	Index into genParticle list for MC matching to status==1 muons
Muon_highPtId	UChar_t	high-pT cut-based ID (1 = tracker high pT, 2 = global high pT, which includes tracker high pT)

Muon_highPurity	Bool t	inner track is high purity
Muon inTimeMuon	Bool t	inTimeMuon ID
Muon_ip3d	Float_t	3D impact parameter wrt first PV, in cm
Muon_isGlobal	Bool_t	muon is global muon
Muon isPFcand	Bool t	muon is PF candidate
Muon_isTracker	Bool t	muon is tracker muon
Muon_jetIdx	Int_t(index to Jet)	index of the associated jet (-1 if none)
Muon_jetPtRelv2	Float_t	Relative momentum of the lepton with respect to the closest jet after subtracting the lepton
Muon_jetRelIso	Float_t	Relative isolation in matched jet (1/ptRatio-1, pfRelIso04_all if no matched jet)
Muon_looseId	Bool_t	muon is loose muon
Muon_mass	Float_t	mass
Muon_mediumId	Bool_t	cut-based ID, medium WP
Muon_mediumPromptId	Bool_t	cut-based ID, medium prompt WP
Muon_miniIsoId	UChar_t	MiniIso ID from miniAOD selector (1=MiniIsoLoose, 2=MiniIsoMedium, 3=MiniIsoTight, 4=MiniIsoVeryTight)
Muon_miniPFRelIso_all	Float_t	mini PF relative isolation, total (with scaled rho*EA PU corrections)
Muon_miniPFRelIso_chg	Float_t	mini PF relative isolation, charged component
Muon_multiIsoId	UChar_t	MultiIsoId from miniAOD selector (1=MultiIsoLoose, 2=MultiIsoMedium)
Muon_mvaId	UChar_t	Mva ID from miniAOD selector (1=MvaLoose, 2=MvaMedium, 3=MvaTight, 4=MvaVTight, 5=MvaVVTight)
Muon_mvaLowPt	Float_t	Low pt muon ID score
Muon_mvaLowPtId	UChar_t	Low Pt Mva ID from miniAOD selector (1=LowPtMvaLoose, 2=LowPtMvaMedium)
Muon_mvaTTH	Float_t	TTH MVA lepton ID score
Muon_nStations	Int_t	number of matched stations with default arbitration (segment & track)
Muon_nTrackerLayers	Int_t	number of layers in the tracker
Muon_pdgId	Int_t	PDG code assigned by the event reconstruction (not by MC truth)
Muon_pfIsoId	UChar_t	PFIso ID from miniAOD selector (1=PFIsoVeryLoose, 2=PFIsoLoose, 3=PFIsoMedium, 4=PFIsoTight, 5=PFIsoVeryTight, 6=PFIsoVeryVeryTight)
Muon_pfRelIso03_all	Float_t	PF relative isolation dR=0.3, total (deltaBeta corrections)
Muon_pfRelIso03_chg	Float_t	PF relative isolation dR=0.3, charged component
Muon_pfRelIso04_all	Float_t	PF relative isolation dR=0.4, total (deltaBeta corrections)
Muon_phi	Float_t	phi
Muon_pt	Float_t	pt
Muon_ptErr	Float_t	ptError of the muon track
Muon_segmentComp	Float_t	muon segment compatibility
Muon_sip3d	Float_t	3D impact parameter significance wrt first PV
Muon_softId	Bool_t	soft cut-based ID
Muon_softMva	Float_t	soft MVA ID score
Muon_softMvaId	Bool_t	soft MVA ID
Muon_tightCharge	Int_t	Tight charge criterion using pterr/pt of muonBestTrack (0:fail, 2:pass)
Muon_tightId	Bool_t	cut-based ID, tight WP
Muon_tkIsoId	UChar_t	TkIso ID (1=TkIsoLoose, 2=TkIsoTight)
Muon_tkRelIso	Float_t	Tracker-based relative isolation dR=0.3 for highPt, trkIso/tunePpt
Muon_triggerIdLoose	Bool_t	TriggerIdLoose ID
Muon_tunepRelPt	Float_t	TuneP relative pt, tunePpt/pt
nMuon	UInt_t	<pre>slimmedMuons after basic selection (pt &gt; 3 &amp;&amp;   (passed('CutBasedIdLoose')    passed('SoftCutBasedId')    passed('SoftMvaId')    passed('CutBasedIdGlobalHighPt')    passed('CutBasedIdTrkHighPt')))</pre>

OtherPV [back to top]

Object property	Туре	Description
OtherPV_z	Float_t	Z position of other primary vertices, excluding the main PV
n0therPV	UInt_t	

PSWeight [back to top]

Object property	Туре	Description
PSWeight	Float_t	PS weights (w_var / w_nominal); [0] is ISR=0.5 FSR=1; [1] is ISR=1 FSR=0.5; [2] is ISR=2 FSR=1; [3] is ISR=1 FSR=2
nPSWeight	UInt_t	

PV [back to top]

Object property	Туре	Description
PV_chi2	Float_t	main primary vertex reduced chi2
PV_ndof	Float_t	main primary vertex number of degree of freedom
PV_npvs	Int_t	total number of reconstructed primary vertices
PV_npvsGood	Int_t	number of good reconstructed primary vertices. selection:!isFake && ndof > 4 && abs(z) <= 24 && position.Rho <= 2
PV_score	Float_t	main primary vertex score, i.e. sum pt2 of clustered objects
PV_x	Float_t	main primary vertex position x coordinate
PV_y	Float_t	main primary vertex position y coordinate
PV_z	Float_t	main primary vertex position z coordinate

Photon [back to top]

Object property	Туре	
Photon_charge	Int_t	electric charge
Photon_cleanmask	UChar_t	simple cleaning mask with priority to leptons
Photon_cutBased	Int_t	cut-based ID bitmap, Fall17V2, (0:fail, 1:loose, 2:medium, 3:tigh
Photon_cutBased_Fall17V1Bitmap	Int_t	cut-based ID bitmap, Fall17V1, 2^(0:loose, 1:medium, 2:tight).
Photon_eCorr	Float_t	ratio of the calibrated energy/miniaod energy
Photon_electronIdx	<pre>Int_t(index</pre>	index of the associated electron (-1 if none)
	to Electron)	
Photon electronVeto	Bool t	pass electron veto
	Float t	energy error of the cluster from regression
Photon_energyErr Photon_eta	Float_t	eta
		Flavour of genParticle for MC matching to status==1 photons or el
Photon_genPartFlav	UChar_t	·
Photon_genPartIdx	<pre>Int_t(index to Genpart)</pre>	Index into genParticle list for MC matching to status==1 photons
Photon_hoe	Float_t	H over E
Photon_isScEtaEB	Bool_t	is supercluster eta within barrel acceptance
Photon_isScEtaEE	Bool_t	is supercluster eta within endcap acceptance
Photon_jetIdx	<pre>Int_t(index to Jet)</pre>	index of the associated jet (-1 if none)
Photon_mass	Float_t	mass
Photon_mvaID	Float_t	MVA ID score, Fall17V2
Photon_mvaID_Fall17V1p1	Float_t	MVA ID score, Fall17V1p1
Photon_mvaID_WP80	Bool_t	MVA ID WP80, Fall17V2
Photon_mvaID_WP90	Bool_t	MVA ID WP90, Fall17V2
Photon_pdgId	Int_t	PDG code assigned by the event reconstruction (not by MC truth)
Photon_pfRelIso03_all	Float_t	PF relative isolation dR=0.3, total (with rho*EA PU corrections)
Photon_pfRelIso03_chg	Float_t	PF relative isolation dR=0.3, charged component (with rho*EA PU o
Photon_phi	Float_t	phi
Photon_pixelSeed	Bool_t	has pixel seed
Photon_pt	Float_t	p_{T}
Photon_r9	Float_t	R9 of the supercluster, calculated with full 5x5 region
Photon_seedGain	UChar_t	Gain of the seed crystal
Photon_sieie	Float_t	sigma_IetaIeta of the supercluster, calculated with full 5x5 regi
Photon_vidNestedWPBitmap	Int_t	Fall17V2 VID compressed bitmap (MinPtCut,PhoSCEtaMultiRangeCut,PhoSingleTowerHadOverEmCut,PhoFul 2 bits per cut
nPhoton	UInt_t	slimmedPhotons after basic selection (pt > 5 )

Pileup [back to top]

Object property	Туре	Description
Pileup_gpudensity	Float_t	Generator-level PU vertices / mm
Pileup_nPU	Int_t	the number of pileup interactions that have been added to the event in the current bunch crossing
Pileup_nTrueInt	Float_t	the true mean number of the poisson distribution for this event from which the number of interactions each bunch crossing has been sampled
Pileup_pudensity	Float_t	PU vertices / mm
Pileup_sumE00T	Int_t	number of early out of time pileup
Pileup_sumL00T	Int_t	number of late out of time pileup

PuppiMET [back to top]

Object property	Туре	Description
PuppiMET_phi	Float_t	phi

PuppiMET_phiJERUp	Float_t	JER up phi
PuppiMET_phiJESUp	Float_t	JES up phi
PuppiMET_pt	Float_t	pt
PuppiMET_ptJERUp	Float_t	JER up pt
PuppiMET_ptJESUp	Float_t	JES up pt
PuppiMET_sumEt	Float_t	scalar sum of Et

#### RawMET [back to top]

Object property	Туре	Description
RawMET_phi	Float_t	phi
RawMET_pt	Float_t	pt
RawMET_sumEt	Float_t	scalar sum of Et

# RawPuppiMET [back to top]

Object property	Туре	Description
RawPuppiMET_phi	Float_t	phi
RawPuppiMET_pt	Float_t	pt
RawPuppiMET_sumEt	Float_t	scalar sum of Et

# SV [back to top]

Object property	Туре	Description
SV_chi2	Float_t	reduced chi2, i.e. chi/ndof
SV_dlen	Float_t	decay length in cm
SV_dlenSig	Float_t	decay length significance
SV_dxy	Float_t	2D decay length in cm
SV_dxySig	Float_t	2D decay length significance
SV_eta	Float_t	eta
SV_mass	Float_t	mass
SV_ndof	Float_t	number of degrees of freedom
SV_pAngle	Float_t	pointing angle, i.e. acos(p_SV * (SV - PV))
SV_phi	Float_t	phi
SV_pt	Float_t	pt
SV_x	Float_t	secondary vertex X position, in cm
SV_y	Float_t	secondary vertex Y position, in cm
SV_z	Float_t	secondary vertex Z position, in cm
nSV	UInt_t	

#### SoftActivityJet [back to top]

Object property	Туре	Description
SoftActivityJet_eta	Float_t	eta
SoftActivityJet_phi	Float_t	phi
SoftActivityJet_pt	Float_t	pt
nSoftActivityJet	UInt_t	jets clustered from charged candidates compatible with primary vertex (charge()!=0 && pvAssociationQuality()>=5 && vertexRef().key()==0)

# SoftActivityJetHT [back to top]

Object property	Туре	Description
SoftActivityJetHT	Float_t	scalar sum of soft activity jet pt, pt>1

# SoftActivityJetHT10 [back to top]

Object property	Туре	Description
SoftActivityJetHT10	Float_t	scalar sum of soft activity jet pt , pt >10

# SoftActivityJetHT2 [back to top]

Object property	Туре	Description
SoftActivityJetHT2	Float_t	scalar sum of soft activity jet pt, pt >2

# SoftActivityJetHT5 [back to top]

Object property	Туре	Description
SoftActivityJetHT5	Float_t	scalar sum of soft activity jet pt, pt>5

# SoftActivityJetNjets10 [back to top]

Object property	Type	Description	
0.000 p. opo. cy	. ) 4 0	2000: =pc=0::	

**SoftActivityJetNjets10** Int\_t number of soft activity jet pt, pt >2

SoftActivityJetNjets2 [back to top]

Object property	Туре	Description
SoftActivityJetNjets2	Int_t	number of soft activity jet pt, pt >10

SoftActivityJetNjets5 [back to top]

Object property	Туре	Description
SoftActivityJetNjets5	Int_t	number of soft activity jet pt, pt >5

SubGenJetAK8 [back to top]

Object property	Туре	Description
SubGenJetAK8_eta	Float_t	eta
SubGenJetAK8_mass	Float_t	mass
SubGenJetAK8_phi	Float_t	phi
SubGenJetAK8_pt	Float_t	pt
nSubGenJetAK8	UInt_t	slimmedGenJetsAK8SoftDropSubJets, i.e. subjets of ak8 Jets made with visible genparticles

SubJet [back to top]

Object property	Туре	Description
SubJet_btagCMVA	Float_t	CMVA V2 btag discriminator
SubJet_btagCSVV2	Float_t	pfCombinedInclusiveSecondaryVertexV2 b-tag discriminator (aka CSVV2)
SubJet_btagDeepB	Float_t	DeepCSV b+bb tag discriminator
SubJet_eta	Float_t	eta
SubJet_mass	Float_t	mass
SubJet_n2b1	Float_t	N2 with beta=1
SubJet_n3b1	Float_t	N3 with beta=1
SubJet_nBHadrons	UChar_t	number of b-hadrons
SubJet_nCHadrons	UChar_t	number of c-hadrons
SubJet_phi	Float_t	phi
SubJet_pt	Float_t	pt
SubJet_rawFactor	Float_t	1 - Factor to get back to raw pT
SubJet_tau1	Float_t	Nsubjettiness (1 axis)
SubJet_tau2	Float_t	Nsubjettiness (2 axis)
SubJet_tau3	Float_t	Nsubjettiness (3 axis)
SubJet_tau4	Float_t	Nsubjettiness (4 axis)
nSubJet	UInt_t	slimmedJetsAK8, i.e. ak8 fat jets for boosted analysis

Tau [back to top]

Object property	Туре	Description
Tau_charge	Int_t	electric charge
Tau_chargedIso	Float_t	charged isolation
Tau_cleanmask	UChar_t	simple cleaning mask with priority to leptons
Tau_decayMode	Int_t	decayMode()
Tau_dxy	Float_t	<pre>d_{xy} of lead track with respect to PV, in cm (with sign)</pre>
Tau_dz	Float_t	<pre>d_{z} of lead track with respect to PV, in cm (with sign)</pre>
Tau_eta	Float_t	eta
Tau_genPartFlav	UChar_t	Flavour of genParticle for MC matching to status==2 taus: 1 = prompt electron, 2 = prompt muon, 3 = tau->e decay, 4 = tau->mu decay, 5 = hadronic tau decay, 0 = unknown or unmatched
Tau_genPartIdx	<pre>Int_t(index to Genpart)</pre>	Index into genParticle list for MC matching to status==2 taus
Tau_idAntiEle	UChar_t	Anti-electron MVA discriminator V6 (2015): bitmask 1 = VLoose, 2 = Loose, 4 = Medium, 8 = Tight, 16 = VTight
Tau_idAntiEle2018	UChar_t	Anti-electron MVA discriminator V6 (2018): bitmask 1 = VLoose, 2 = Loose, 4 = Medium, 8 = Tight, 16 = VTight
Tau_idAntiEleDeadECal	Bool_t	Anti-electron dead-ECal discriminator
Tau_idAntiMu	UChar_t	Anti-muon discriminator V3: : bitmask 1 = Loose, 2 = Tight
Tau_idDecayMode	Bool_t	tauID('decayModeFinding')
Tau_idDecayModeNewDMs	Bool_t	tauID('decayModeFindingNewDMs')
Tau_idDeepTau2017v2p1VSe	UChar_t	<pre>byDeepTau2017v2p1VSe ID working points (deepTau2017v2p1): bitmask 1 = VVVLoose, 2 = VVLoose, 4 = VLoose, 8 = Loose, 16 = Medium, 32 = Tight, 64 = VTight, 128 = VVTight</pre>
Tau_idDeepTau2017v2p1VSjet	UChar_t	byDeepTau2017v2p1VSjet ID working points (deepTau2017v2p1):

/12/2021		Documentation for mc102X_NANO.root
		bitmask 1 = VVVLoose, 2 = VVLoose, 4 = VLoose, 8 = Loose, 16 = Medium, 32 = Tight, 64 = VTight, 128 = VVTight
Tau_idDeepTau2017v2p1VSmu	UChar_t	byDeepTau2017v2p1VSmu ID working points (deepTau2017v2p1): bitmask 1 = VLoose, 2 = Loose, 4 = Medium, 8 = Tight
Tau_idMVAnewDM2017v2	UChar_t	IsolationMVArun2v1DBnewDMwLT ID working point (2017v2): bitmask 1 = VVLoose, 2 = VLoose, 4 = Loose, 8 = Medium, 16 = Tight, 32 = VTight, 64 = VVTight
Tau_idMVAoldDM	UChar_t	IsolationMVArun2v1DBoldDMwLT ID working point (2015): bitmask 1 = VLoose, 2 = Loose, 4 = Medium, 8 = Tight, 16 = VTight, 32 = VVTight
Tau_idMVAoldDM2017v1 UChar_t		IsolationMVArun2v1DBoldDMwLT ID working point (2017v1): bitmask 1 = VVLoose, 2 = VLoose, 4 = Loose, 8 = Medium, 16 = Tight, 32 = VTight, 64 = VVTight
Tau_idMVAoldDM2017v2	UChar_t	IsolationMVArun2v1DBoldDMwLT ID working point (2017v2): bitmask 1 = VVLoose, 2 = VLoose, 4 = Loose, 8 = Medium, 16 = Tight, 32 = VTight, 64 = VVTight
Tau_idMVAoldDMdR032017v2	UChar_t	IsolationMVArun2v1DBoldDMdR0p3wLT ID working point (2017v2): bitmask 1 = VVLoose, 2 = VLoose, 4 = Loose, 8 = Medium, 16 = Tight, 32 = VTight, 64 = VVTight
Tau_jetIdx	<pre>Int_t(index to Jet)</pre>	index of the associated jet (-1 if none)
Tau_leadTkDeltaEta	Float_t	eta of the leading track, minus tau eta
Tau_leadTkDeltaPhi	Float_t	phi of the leading track, minus tau phi
Tau_leadTkPtOverTauPt	Float_t	pt of the leading track divided by tau pt
Tau_mass	Float_t	mass
Tau_neutralIso	Float_t	neutral (photon) isolation
Tau_phi	Float_t	phi
Tau_photonsOutsideSignalCone	Float_t	sum of photons outside signal cone
Tau_pt	Float_t	pt
Tau_puCorr	Float_t	pileup correction
Tau_rawAntiEle	Float_t	Anti-electron MVA discriminator V6 raw output discriminator (2015)
Tau_rawAntiEle2018	Float_t	Anti-electron MVA discriminator V6 raw output discriminator (2018)
Tau_rawAntiEleCat	Int_t	Anti-electron MVA discriminator V6 category (2015
Tau_rawAntiEleCat2018	Int_t	Anti-electron MVA discriminator V6 category (2018)
Tau_rawDeepTau2017v2p1VSe	Float_t	byDeepTau2017v2p1VSe raw output discriminator (deepTau2017v2p1)
Tau_rawDeepTau2017v2p1VSjet	Float_t	<pre>byDeepTau2017v2p1VSjet raw output discriminator (deepTau2017v2p1)</pre>
Tau_rawDeepTau2017v2p1VSmu	Float_t	byDeepTau2017v2p1VSmu raw output discriminator (deepTau2017v2p1)
Tau_rawIso	Float_t	combined isolation (deltaBeta corrections)
Tau_rawIsodR03	Float_t	combined isolation (deltaBeta corrections, dR=0.3)
Tau_rawMVAnewDM2017v2	Float_t	byIsolationMVArun2v1DBnewDMwLT raw output discriminator (2017v2)
Tau_rawMVAoldDM	Float_t	byIsolationMVArun2v1DBoldDMwLT raw output discriminator (2015)
Tau_rawMVAoldDM2017v1	Float_t	byIsolationMVArun2v1DBoldDMwLT raw output discriminator (2017v1)
Tau_rawMVAoldDM2017v2	Float_t	byIsolationMVArun2v1DBoldDMwLT raw output discriminator (2017v2)
Tau_rawMVAoldDMdR032017v2	Float_t	byIsolationMVArun2v1DBdR03oldDMwLT raw output discriminator (2017v2)
nTau	UInt_t	<pre>slimmedTaus after basic selection (pt &gt; 18 &amp;&amp; tauID('decayModeFindingNewDMs') &amp;&amp; (tauID('byLooseCombinedIsolationDeltaBetaCorr3Hits')    tauID('byVLooseIsolationMVArun2v1DBoldDMwLT2015')    tauID('byVLooseIsolationMVArun2v1DBnewDMwLT')    tauID('byVLooseIsolationMVArun2v1DBdR03oldDMwLT')    tauID('byVVLooseIsolationMVArun2v1DBoldDMwLT')    tauID('byVVLooseIsolationMVArun2v1DBoldDMwLT')    tauID('byVVLooseIsolationMVArun2v1DBoldDMwLT2017v2')    tauID('byVVLooseIsolationMVArun2v1DBdR03oldDMwLT2017v2')    tauID('byVVLooseIsolationMVArun2v1DBdR03oldDMwLT2017v2')    tauID('byVVVLooseDeepTau2017v2p1VSjet')))</pre>

TkMET [back to top]

Object property	Туре	Description
TkMET_phi	Float_t	raw track MET phi
TkMET_pt	Float_t	raw track MET pt
TkMET_sumEt	Float_t	raw track scalar sum of Et

TrigObj <sup>[back to top]</sup>

Object property	Туре	Description
TrigObj_eta	Float_t	eta

TrigObj\_filterBits Int\_t

extra bits of associated information: 1 = CaloIdL\_TrackIdL\_IsoVL, 2 = 1e (WPTight PFTau, 16 = 2e, 32 = 1e-1mu, 64 = 1e-1tau, 128 = 3e, 256 = 2e-1mu, 512 = 1e-2mu, (32\_L1DoubleEG\_AND\_L1SingleEGOr), 2048 = 1e (CaloIdVT\_GsfTrkIdT), 4096 = 1e (PFJe for Electron (PixelMatched e/gamma); 1 = TrkIsoVVL, 2 = Iso, 4 = OverlapFilter PF 64 = 1mu-1tau, 128 = 3mu, 256 = 2mu-1e, 512 = 1mu-2e, 1024 = 1mu (Mu50), 2048 = 1 LooseChargedIso, 2 = MediumChargedIso, 4 = TightChargedIso, 8 = TightID OOSC phottau+MET, 64 = di-tau, 128 = e-tau, 256 = mu-tau, 512 = VBF+di-tau for Tau; Jet bi loose iso PFTau, bit 1 for hltBTagCaloCSVp087Triple, bit 2 for hltDoubleCentralJe hltDoublePFCentralJetLooseID90, bit 4 for hltL1sTripleJetVBFIorHTTIorDoubleJetCIo hltQuadCentralJet30, bit 6 for hltQuadPFCentralJetLooseID30, bit 7 for hltL1sQuadJetC50IorQuadJetC60IorHTT280IorHTT300IorHTT320IorTripleJet846848VBFIorT or hltL1sQuadJetCIorTripleJetVBFIorHTT, bit 8 for hltQuadCentralJet45, bit 9 for for hltL1sQuadJetC60IorHTT380IorHTT280QuadJetIorHTT300QuadJet or hltL1sQuadJetC50to60IorHTT280to500IorHTT250to340QuadJet bit 11 for hltBTagCaloCSV hltBTagCaloDeepCSVp17Double, bit 12 for hltPFCentralJetLooseIDQuad30, bit 13 for hlt2PFCentralJetLooseID60, bit 15 for hlt3PFCentralJetLooseID45, bit 16 for hlt4P hltBTagPFCSVp070Triple or hltBTagPFDeepCSVp24Triple or hltBTagPFDeepCSV4p5Triple hltL1sTripleJetVBFIorHTTIorDoubleJetCIorSingleJet, bit 1 for hltL1sQuadJetC50IorQuadJetC60IorHTT280IorHTT300IorHTT320IorTripleJet846848VBFIorT or hltL1sQuadJetCIorTripleJetVBFIorHTT, bit 2 for hltL1sQuadJetC60IorHTT380IorHTT hltL1sQuadJetC50to60IorHTT280to500IorHTT250to340QuadJet, bit 3 for hltCaloQuadJet 4 for hltPFCentralJetsLooseIDQuad30HT300 or hltPFCentralJetsLooseIDQuad30HT330 fo hltCaloQuadJet30HT300 or hltCaloQuadJet30HT320, bit 1 for hltPFCentralJetsLooseID hltPFCentralJetsLooseIDQuad30HT330 for MHT;

		Hitti Centi aisets Loose is Quadonii soo Toi Piini,
TrigObj_id	Int_t	ID of the object: 11 = Electron (PixelMatched e/gamma), 22 = Photon (PixelMatch-v = Jet, 6 = FatJet, 2 = MET, 3 = HT, 4 = MHT
TrigObj_l1charge	Int_t	charge of associated L1 seed
TrigObj_l1iso	Int_t	iso of associated L1 seed
TrigObj_l1pt	Float_t	pt of associated L1 seed
TrigObj_l1pt_2	Float_t	pt of associated secondary L1 seed
TrigObj_l2pt	Float_t	pt of associated 'L2' seed (i.e. HLT before tracking/PF)
TrigObj_phi	Float_t	phi
TrigObj_pt	Float_t	pt
nTrigObj	UInt_t	

btagWeight [back to top]

Object property	Туре	Description
btagWeight_CSVV2	Float_t	b-tag event weight for CSVV2
btagWeight_DeepCSVB	Float_t	b-tag event weight for DeepCSVB

event [back to top]

Object property	Туре	Description
event	ULong64_t	event/l

fixedGridRhoFastjetAll [back to top]

Object property	Туре	Description
fixedGridRhoFastjetAll	Float_t	rho from all PF Candidates, used e.g. for JECs

 $fixed Grid Rho Fastjet Central \ ^{[back\ to\ top]}$ 

Object property	Туре	Description
fixedGridRhoFastjetCentral	Float_t	rho from all PF Candidates for central region, used e.g. for JECs

fixedGridRhoFastjetCentralCalo [back to top]

Object property	Туре	Description
fixedGridRhoFastjetCentralCalo	Float_t	rho from calo towers with  eta  < 2.5, used e.g. egamma PFCluster isolation

 ${\bf fixedGridRhoFastjetCentralChargedPileUp} \ \ {}^{[back\ to\ top]}$ 

Object property	Туре	Description
fixedGridRhoFastjetCentralChargedPileUp	Float_t	rho from charged PF Candidates for central region, used
		e.g. 101 3EC3

 ${\bf fixedGridRhoFastjetCentralNeutral} \ \ {}^{[back\ to\ top]}$ 

Object property	Туре	Description
fixedGridRhoFastjetCentralNeutral	Float_t	rho from neutral PF Candidates with  eta  < 2.5, used e.g. for
		rho corrections of some lepton isolations

genTtbarId [back to top]

object property Type bescription	Object property	Туре	Description
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genWeight [back to top]

Object propertyTypeDescriptiongenWeightFloat\_tgenerator weight

luminosityBlock [back to top]

Object propertyTypeDescriptionluminosityBlockUInt\_tluminosityBlock/i

run [back to top]

Object property	Туре	Description
run	UInt_t	run/i