

Trigger Item	Trigger type	Justification
muons		
EF_mu6	primary (1e30)	susy: light stop, prompt RPV analysis
	support (1e31)	susy: 1, 2 lepton
EF_mu10	primary (1e31)	susy: 3 lepton, light stop, prompt RPV, 1,2 lepton
EF_mu15	backup (1e31)	susy: 1, 2 lepton
EF_mu20	primary (1e32)	susy: 3 lepton
mu20_slow	primary (1e31, 1e32)	susy: slow (low beta) long lived charged particles: GMSB, split SUSY, mSUGRA, AMSB
mu10_MOnly	primary (1e30)	susy: displaced vertices, slow (low beta) long lived charged particles
mu20_MOnly	primary (1e31)	susy: displaced vertices, slow (low beta) long lived charged particles
mu30_MOnly	primary (1e32)	susy: displaced vertices, slow (low beta) long lived charged particles
mu40_MOnly	backup (1e32)	susy: displaced vertices, slow (low beta) long lived charged particles
EF_2mu6l primary (1e32) susy: light stop		
EF_2mu10	backup(1e32)	susy: light stop
egamma		
EF_e5_medium	support (1e31)	susy: 1,2 lepton
EF_e10_medium	primary (1e30,1e31)	susy: 3 lepton, light stop, prompt RPV, 1, 2 lepton
EF_e12_medium	backup (1e31)	susy: 1,2 lepton
EF_e20med	primary (1e32)	susy: 3 lepton
EF_2e10_medium	primary (1e32)	susy: light stop
EF_g20_loose	primary (1e31)	susy: photons
EF_2g20_loose	primary (1e32)	susy: photons
jets		
lowest unrescaled threshold (100GeV great)	primary	susy: long lived
JE60 + HLT	support (1e30, 1e31, 1e32)	susy: 0-lepton analysis
JE100 + HLT	primary (1e30, 1e31)	susy: 0-lepton analysis
JE140 + HLT	primary (1e32)	susy: 0-lepton analysis
JE200 + HLT	backup	susy: 0-lepton analysis
Dphi	support	susy:
m_ct	primary	susy:
L1_3J10_2J30	primary (1e31, if no HLT)	susy: 0 lepton
L1_3J5_J30_EF_3j40_j80	primary (1e31)	susy: 0 lepton
3j40	backup (1e31)	susy: 0 lepton
3j60	backup (1e31)	susy: 0 lepton
4j20	primary (1e31)	susy: 0 lepton
L1_4J5_J15_EF_4j30_j70	primary (1e31)	susy: 0 lepton
L1_4J5_J30_EF_4j30_j80	backup (1e31)	susy: 0 lepton
taus		
missing transverse energy		
EF_xe25	primary (1e31)	susy: 0-leptons, b-jets, tau inclusive
EF_xe as low as possible (offline cut at ~50GeV or ~70GeV)	primary (1e32)	susy: 0-leptons, b-jets, tau inclusive
combined		
EF_e5_mu4	primary (1e31)	susy: light stop
EF_e10_mu6	primary (1e32)	susy: light stop
EF_2j40_xe20	primary (1e31)	susy: 0-leptons, b-jets
EF_j80_xe20	primary (1e31)	susy: 0-leptons, b-jets

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EF_2j40_xe30	primary (1e32)	susy: 0-leptons, b-jets, long lived, tau inclusive
EF_j80_xe30	primary (1e32)	susy: 0-leptons, b-jets, long lived
EF_tau16_loose_mu10	primary (1e31)	susy: prompt RPV analysis
EF_tau16_loose_xe25_noMu	support (1e31)	susy: tau inclusive
others		
J1_EMPTY + HLT	primary (1e31)	susy: stopped gluinos
J1_FIRSTEMPTY + HLT	primary (1e31)	susy: stopped gluinos
J1_UNPAIRED + HLT	primary (1e31)	susy: stopped gluinos

Notation

- Primary: trigger to be used for analysis, it is expected to not be prescaled
- Backup: trigger to be used as primary in case rate for foreseen primary is too high
- Support: trigger to be used for performance studies, other studies... it can be prescaled

-- TeresaFonsecaMartin - 02-Jun-2010

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