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Triggers for Taus

Useful Links

- Physics Trigger Menus for various luminosity scenarios
 - ◆ The 10^{31} Trigger Menu
- Start-up Trigger Menus
- Some links from 2009 Trigger Menus Beatenberg workshop
 - ◆ Motivations document, presented at 19 Jan. Tau Trigger TAPM meeting
 - ◆ Tau Triggers
 - ◆ Trigger Efficiency Issues for Taus

Triggers for Physics studies that involve Tau Leptons

10^{31} Trigger Menu w/ Simple L1 Calibration, 10TeV

Physics Channel	Trigger Chain	L1 Item	Rate (Hz)	Unique Rate (Hz)	Prescale (L1/L2/EF)	Comment
Z eX	e10_medium	L1_EM5	~26	~10	1/1/1	
	tau12_loose_e10_loose	L1_2TAU5_TAU6I_EM5	~2	~0	1/1/1	
Z μ X	mu10	L1_MU10	~20	~5	1/1/1	
	tau16_loose_mu10	L1_TAU6_MU10	1.34	~0	1/1/1	
W X	tau16_loose_xe25	L1_TAU6_XE10	10		1/1/1	
top	tau12_loose_e10_loose	L1_2TAU5_TAU6I_EM5	~2	~0	1/1/1	
Higgs	tau50_loose	L1_TAU20	2		1/1/1	
	2tau20_loose	L1_2TAU6	~1.3		1/1/1	
	2tau29_loose	L1_2TAU11	1		1/1/1	
	?					

Triggers for Tau performance studies

10^{31} Trigger Menu w/ Simple L1 Calibration, 10TeV

Study	Trigger Chain	L1 Item	Rate (Hz)	Unique Rate (Hz)	Prescale (L1/L2/EF)	Comment
ID						
ID from top	3j20? 4j20?					
Fake Rate	j10v3	L1_J5	0.79	0.62	2000/100/1	
	j20v2	L1_J10	0.79	0.62	1000/100/1	
	j40	L1_J15	0.99	0.76	50/100/1	
	j80v2	L1_J30	1.37	1.02	3/100/1	

...To be completed with input from TauWG

Triggers for background studies

10^{31} Trigger Menu w/ Simple L1 Calibration, 10TeV

Study	Trigger Chain	L1 Item	Rate (Hz)	Unique Rate (Hz)	Prescale (L1/L2/EF)	Comment
??

...To be filled with input from TauWG

Tau Triggers at the Express Stream

10³¹ Trigger Menu w/ Simple L1 Calibration, 10TeV

Trigger Chain	Rate at bulk (Hz)	Prescale at bulk	Rate at XS (Hz)	Prescale at XS	Justification
EF_tau12_loose_PT	0.1	750000	0.1	1	Monitor tau16_looseL1 turn on curve
EF_tau16_loose	1.0	600	1.0	1	Basic DQ)
EF_trk9_loose	0.5	750	0.5	1	Monitor hadronic calibration
EF_tau50_loose	2.0	1	1.0	2	Basic DQ

-- AnnaSfyrla - 11-Jan-2010

This topic: Main > TriggerForTauPerformance

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