

L1CalTrack Trigger Terms Description Version 1.0 – May 21, 2006

L1CalTrack trigger manager terms are defined by **CTK(Object, Mult, PT, ET, Eta, Isolation)** where CTK stands for Calorimeter-Track Match. A short description of each term is given below.

CTK(Object, Mult, PT, ET, Eta, Preshower, Isolation)

where

Object = trigger object

Choices = B, E, T, J for BOT, electron, tau, jet

Note at present tau here refers to a tau algorithm on L1Cal.

Hence the T object should not presently be seen in the trigger terms.

Mult = object multiplicity

Choices = 0,1,2

Notes: 3 is generally not implemented but could be if the need arises

PT = L1CTT P_T threshold

Current choices = 3,5,6,7,8,10,13

Note these are floating point numbers and refer to the actual threshold in GeV.

ET = L1Cal E_T threshold

Choices = 3,4,7,10,13,16,5,8,15,20

Note these are floating point numbers and refer to the actual threshold in GeV.

Eta = η region

Choices = X, C, W, A, N, S, F

Notes: Presently we receive NO eta information however it may be L1Cal can do this.

This is the only reason I left the term in.

X defined as no eta information

C defined as $0.0 < |\eta| < 1.2$

W defined as $0.0 < |\eta| < 1.5$

A defined as $0.0 < |\eta| < 2.5$

N defined as $-1.2 > \eta > -2.5$

S defined as $1.2 < \eta < 2.5$

F defined as FPS region

Preshower = use preshower confirmation

Choices = C, F, B, X

Notes: C = CPS, F = FPS, B = both CPS and FPS, X = not used.

Isolation = use track isolation

Choices = I, X

Notes: I = use track isolation, X = not used.