M(Kpi): a more explanatory diagram
checkmarks mean Qpair=0
pi3+k4- is junk
pi1+pi2- is junk
pi1+k4- is the primary vertex
pi2-pi3+ is the secondary vertex
where is the K?
pi1pi2 pi3k4
pi1pi2 k3pi4
pi1k2 pi3pi4
k1pi2 pi3pi4
1 = higher pt
How to tell the computer to make the right choice? which is pi1+k4-?
charge is not enough
PID is not enough
trying nesting the loops does not work.
solution: track information must be tagged to the vertex.
there are several parameters related to the vertex reconstruction.
CMS Twiki Vertex Reconstruction states that there are a few vertex tools.
I am trying to find a way to connect the tracks to the vertex, that is, relate the primary vertex to its tracks.
There are many parameters related to the vertices and tracks but with lack of information. I am going deep into it.
By the way, I can not find TOTEM 2018 data in the EOS repository.