since There are 2 charged masses we deplicate all tracks, the rosulting set is : (subscript denotes the mais) Track Ct C1 , C2 , C3 , C4 , C5 , C6 , C7 , C8] to ease with implementation of reducing combinatories, w add a parallel vector with PDG codes (so \$ isnt fit with \$77, \$7)

Track

PAG [211 -211 , 211, -211, 321, -321, 321, -321] 8 tracks and 3 photons So the reconstructed set now consists of for the root constraints the combinations to fit are (11) However it is most important to reduce combinatories at this step so by separating the choice into two subsets charged t neutral we set $\binom{8}{4}$ and $\binom{3}{2}$. Rules to reduce combinations at the Top Level

(1) For the chosen tracks \(\frac{2}{4} \) For the chosen tracks 2) We can not chose total pags inconsistent with powert V[211 -211, 321,-321] 3) Duplicated tracks are not allowed limited different masses) Et, Pa = Et, Pt but Mes 7 Mcz These for tracks can not be picked together

2)