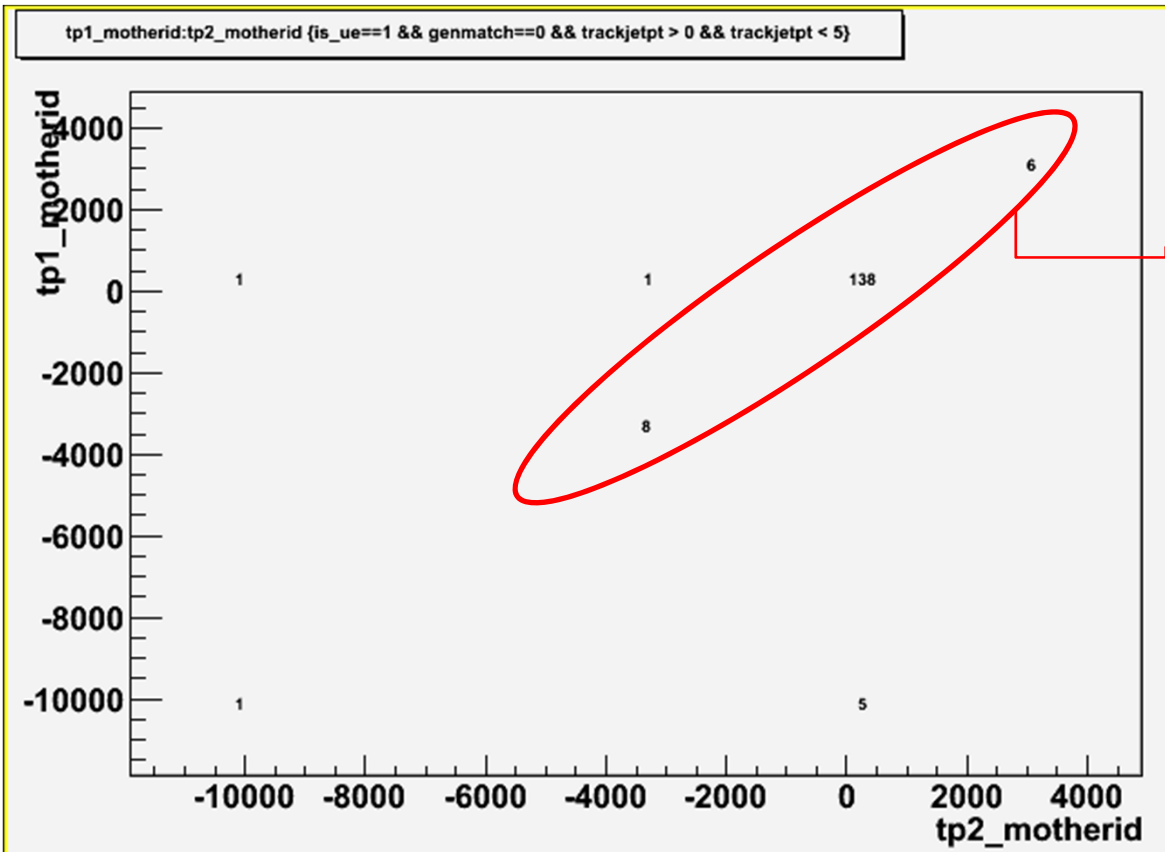




# Unmatched K0s: Ptjet < 5 GeV

TrackJetPt < 5 GeV



160 (2%) unmatched K0s out of 8104:

137x (86%) mother id = 310 = K0s

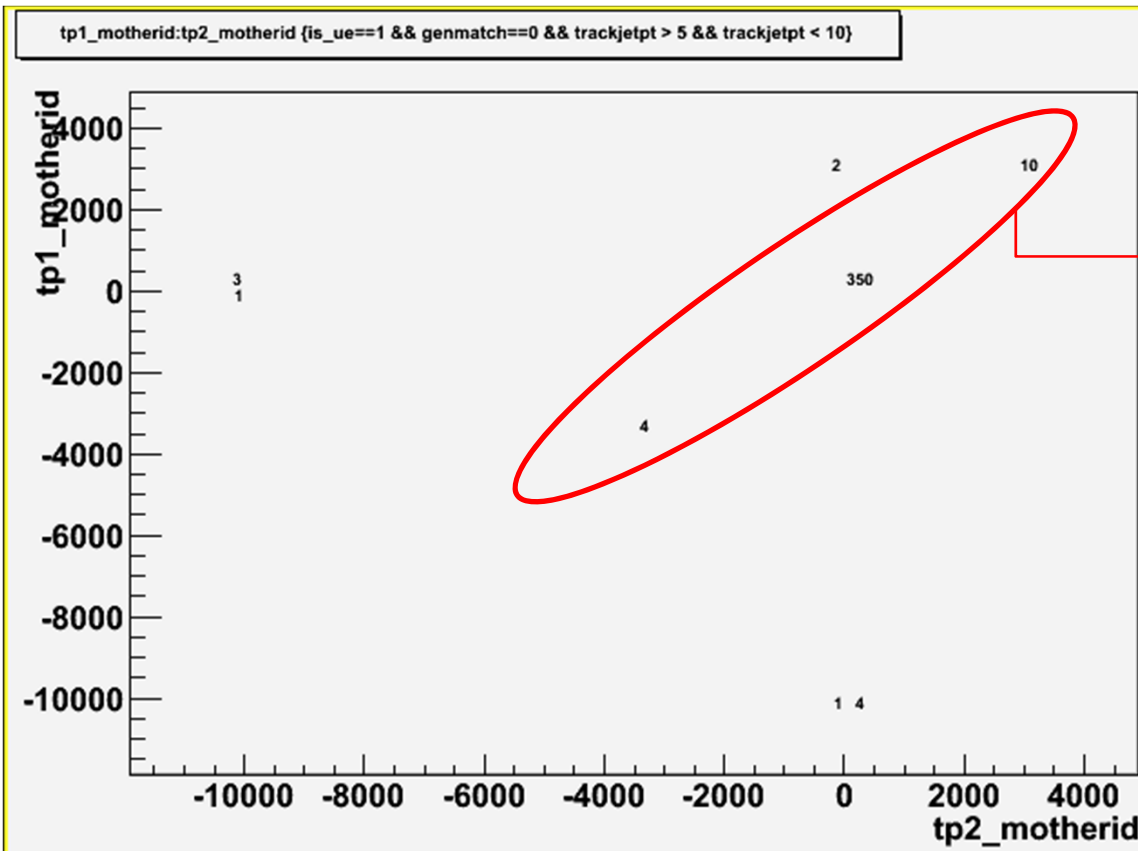
6x (4%) Mother Id = 3122 = Lambda

8x (5%) mother id = -3122 = antilambda

7 (4%) mother ID different for track1 and track2

# Unmatched K0s: $P_{tjet} > 5 \text{ GeV}$

$5 < \text{TrackJetPt} < 10 \text{ GeV}$



375 (6%) unmatched K0s out of 6260:

349x (93%) mother id = 310 = K0s

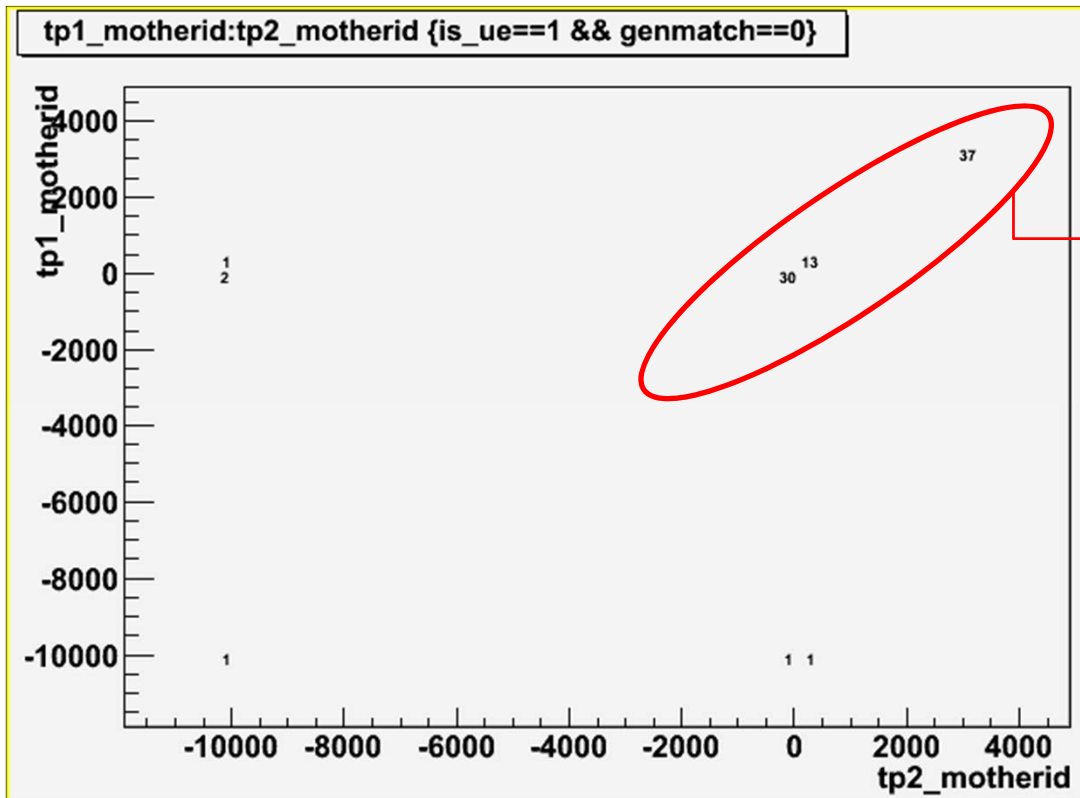
10x (3%) Mother Id = 3122 = Lambda

4x (1%) mother id = -3122 = antilambda

12 (3%) mother ID different for track1 and track2

# Unmatched Lambdas

Lambdas are those V0s that have largest chi2 probability and probability > 0.05



86 (6%) unmatched Lambdas out of 1524 :

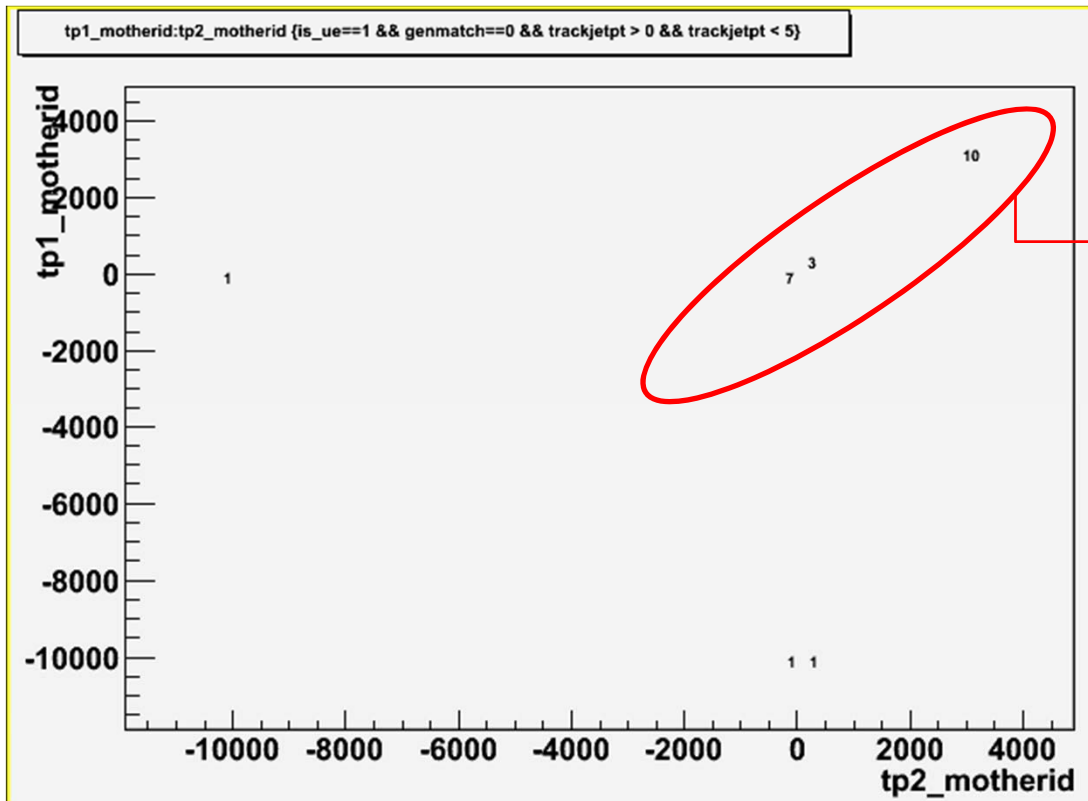
37x (43%) mother id = 3122 = Lambda  
30x (35%) mother Id = 22 = gamma  
13x (15%) mother id = 310 = K0s

5(6%) mother ID different for track1 and track2:

Track IDs: electrons, pions, not associated  
Mother IDs: gammas, K0s, not associated

# Unmatched Lambdas: $P_{tjet} < 5 \text{ GeV}$

TrackJetPt < 5 GeV



23 (5%) unmatched Lambdas out of 444:

10x mother id = 3122 = Lambda

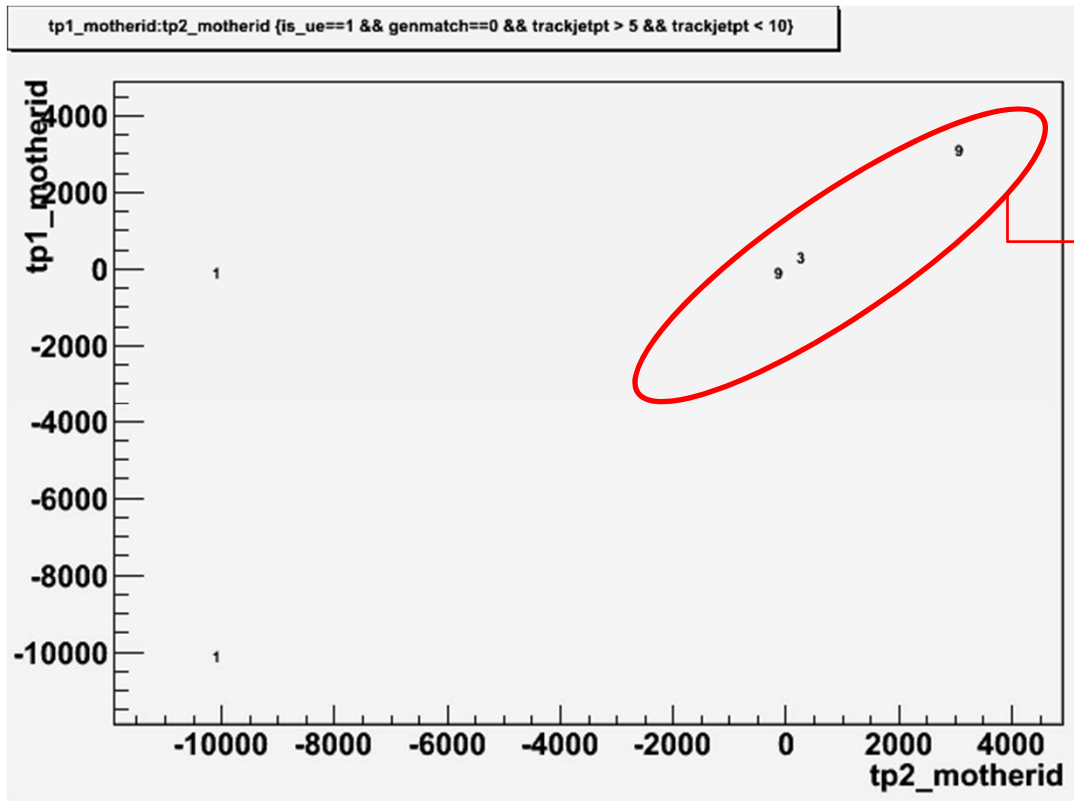
7x mother Id = 22 = gamma

3x mother id = 310 = K0s

3 mother ID different for track1 and track2

# Unmatched Lambdas: $P_{tjet} > 5 \text{ GeV}$

$5 < \text{TrackJetPt} < 10 \text{ GeV}$



23 (6%) unmatched Lambdas out of 410:

9x mother id = 3122 = Lambda

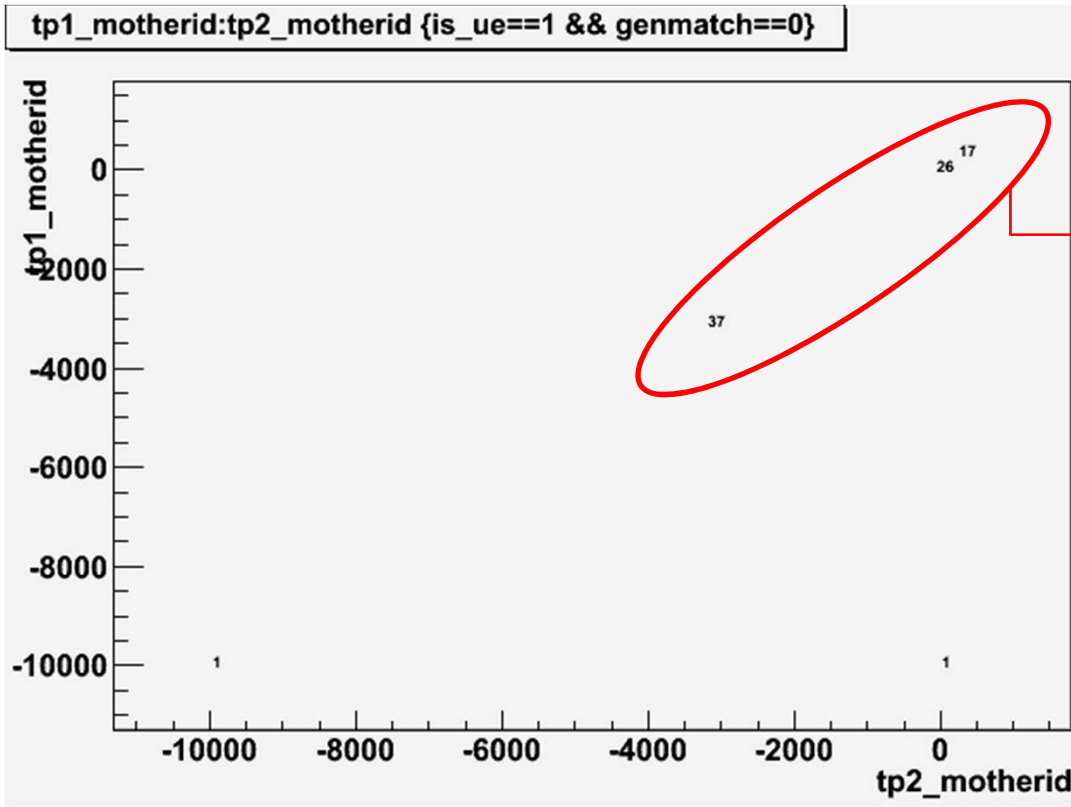
9x mother id = 22 = gamma

3x mother id = 310 = K0s

1 mother ID different for track1 and track2

# Unmatched Antilambdas

Antilambdas are those V0s that have largest chi2 probability and probability > 0.05

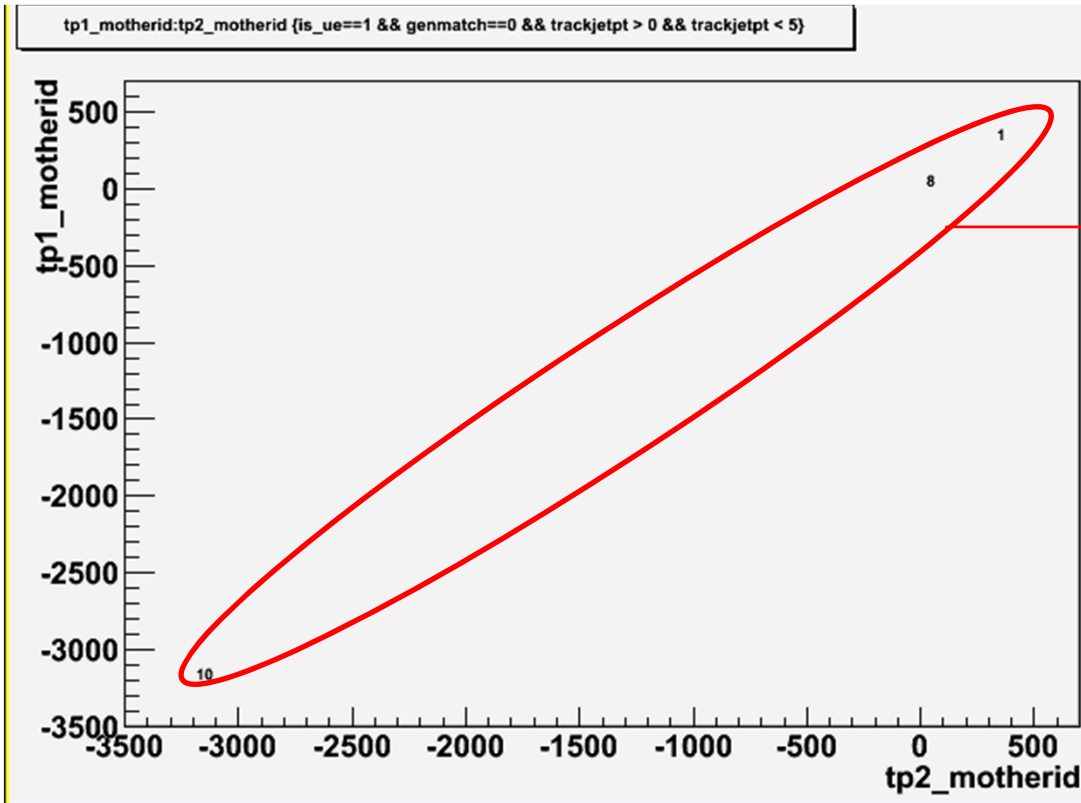


82 (7%) unmatched antilambdas out of 1181 :

37x (45%) mother id = -3122 = AntiLambda  
26x (32%) mother Id = 22 = gamma  
17x (21%) mother Id = 310 = K0s

# Unmatched Antilambda: Ptjet < 5GeV

TrackJetPt < 5 GeV

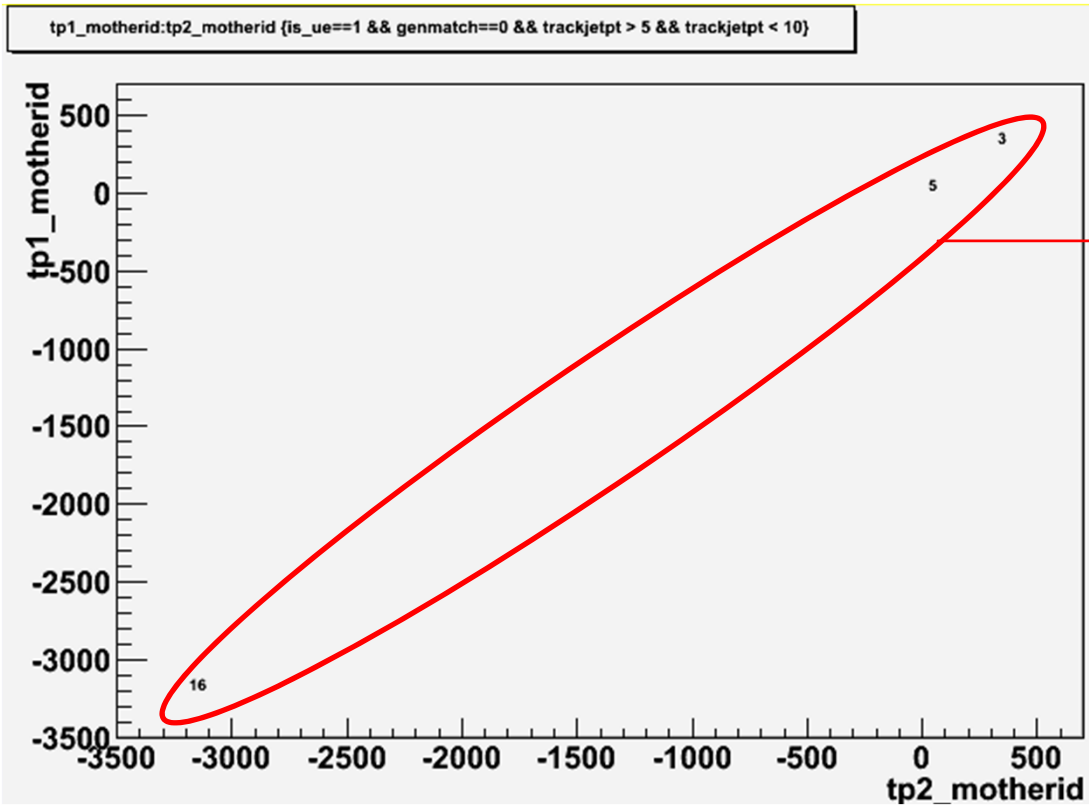


19 (6%) unmatched antilambdas out of 325:

10x mother id = -3122 = AntiLambda  
8x mother Id = 22 = gamma  
1x mother Id = 310 = K0s

# Unmatched Antilambda: $P_{tjet} > 5\text{GeV}$

$5 < \text{TrackJetPt} < 10\text{ GeV}$



24 (7%) unmatched antilambdas out of 333:

16x mother id = -3122 = AntiLambda  
5x mother Id = 22 = gamma  
3x mother Id = 310 = K0s

# Summary for transverse region

- Fraction of unmatched K0s is larger at higher trackjet Pt even in transverse region (2% -> 6%)
- Fraction of unmatched Lambdas/Antilambdas does not change with trackjet Pt
- High fraction of unmatched V0s have the correct ID