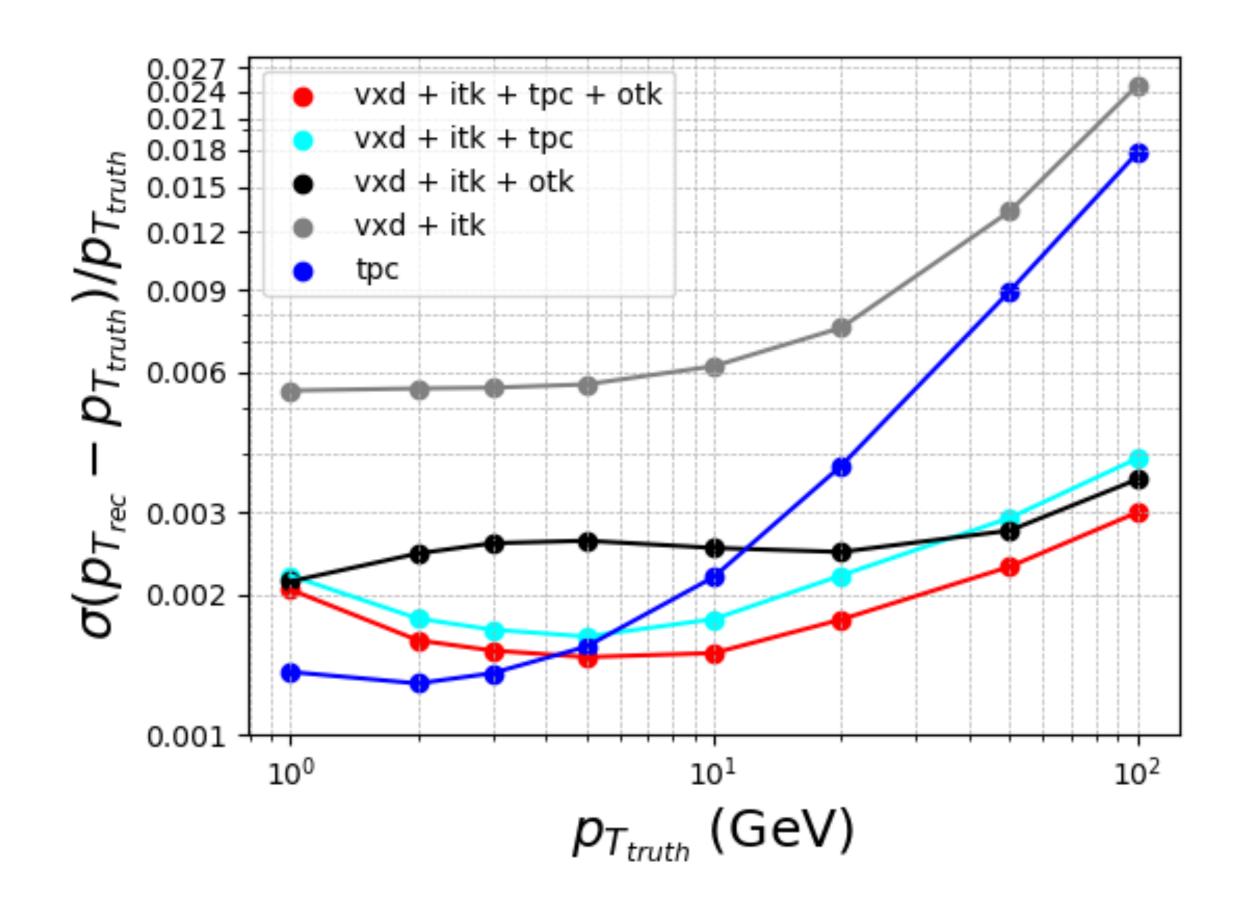
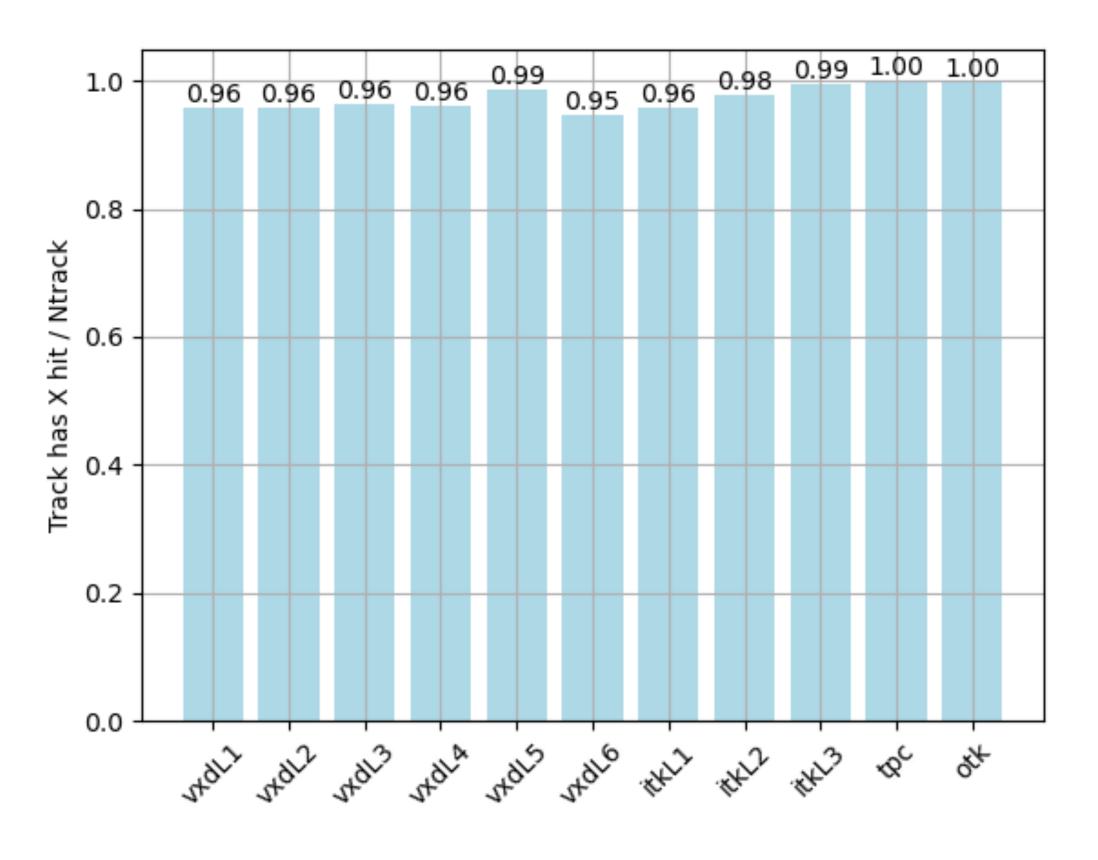


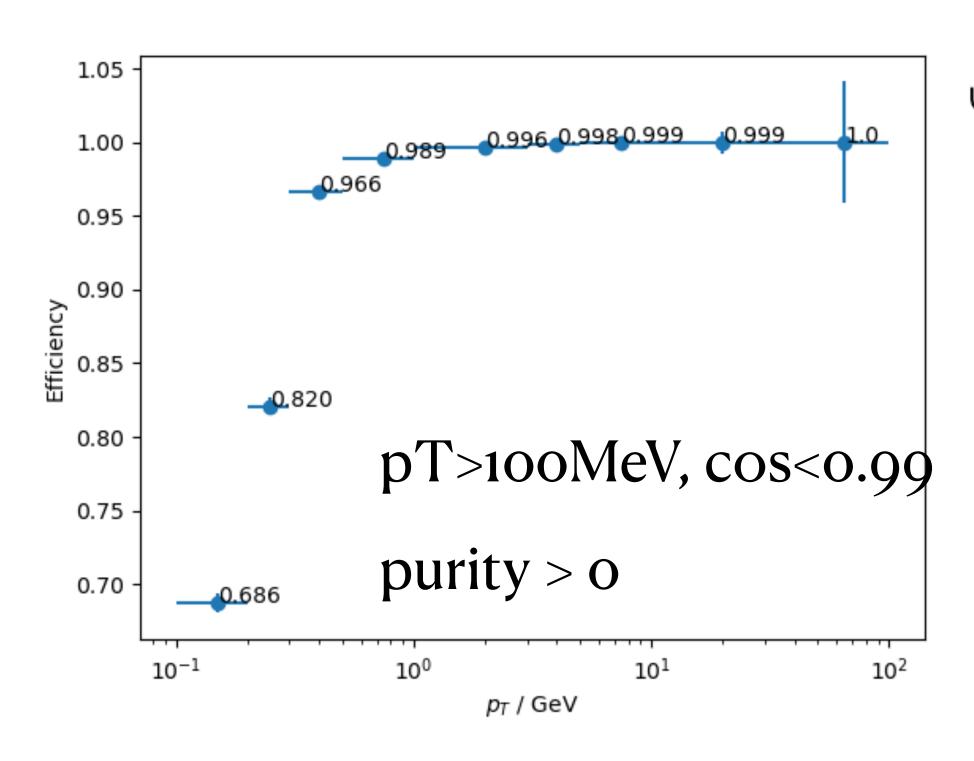
Trk Resolution @ 12.1.1

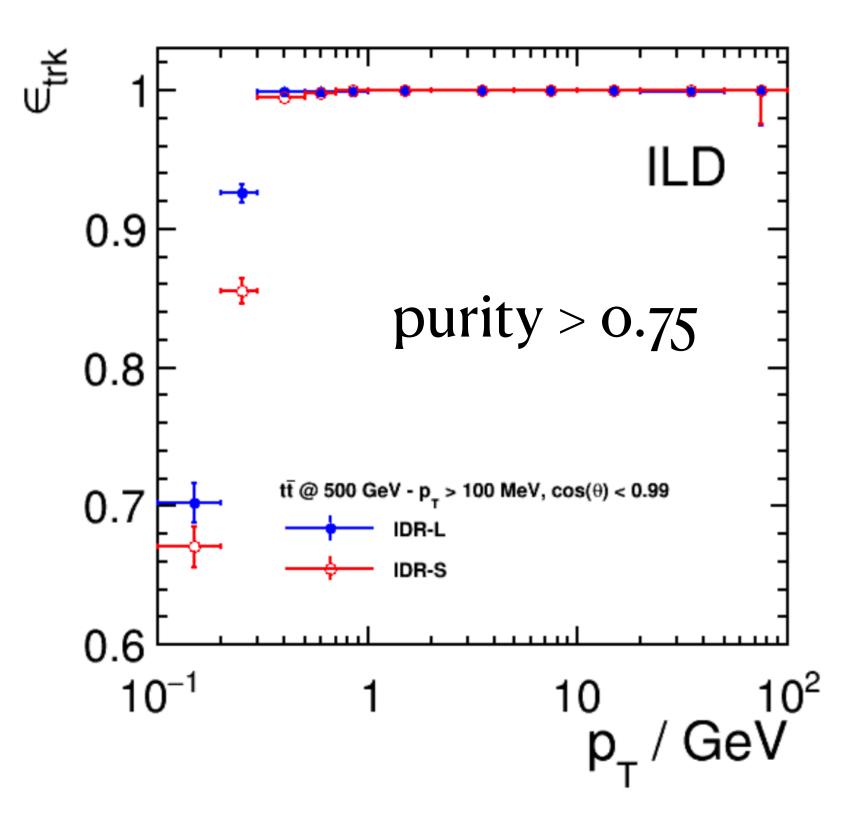


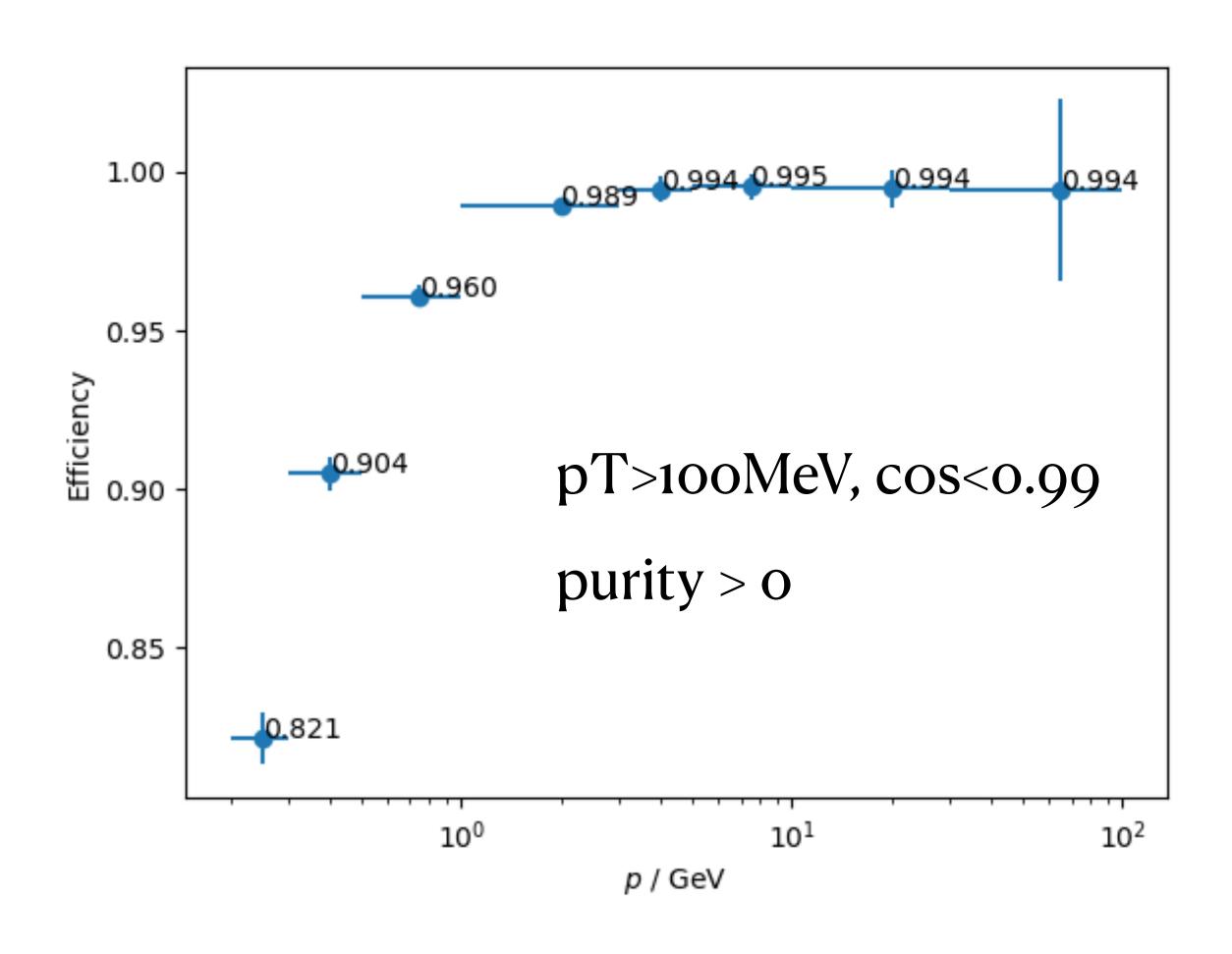


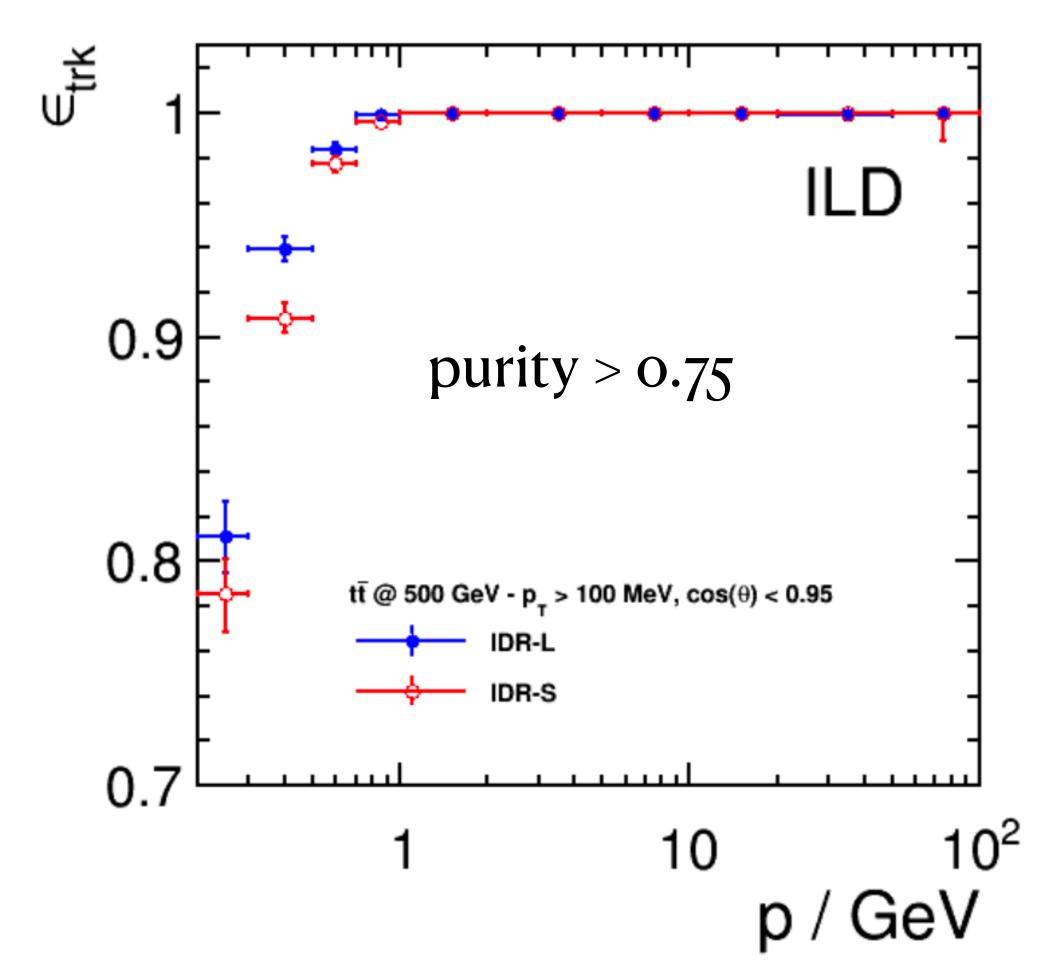
- CompleteTrack @ 1 GeV
- Similar performance for other momenta point

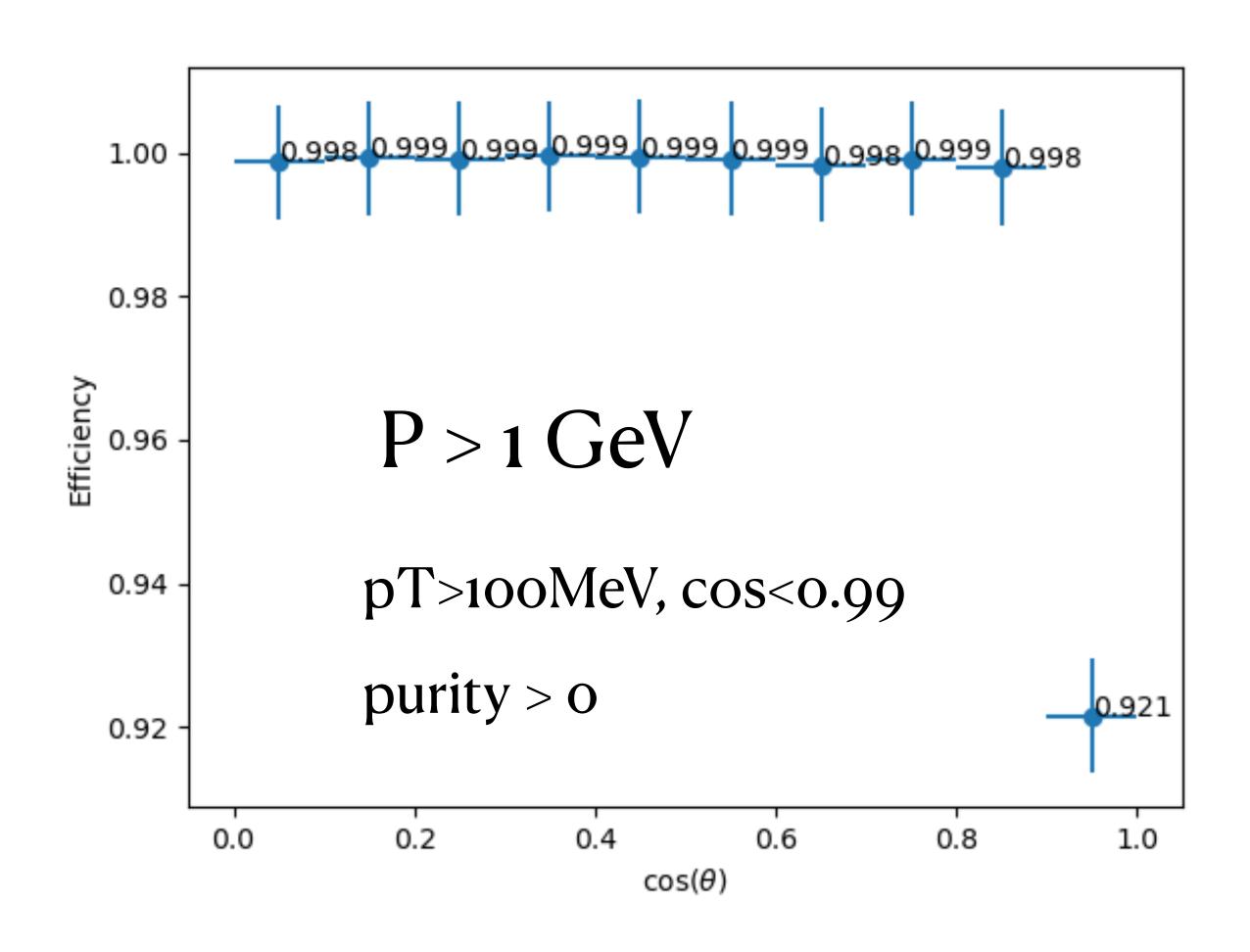
- Samples with 4 or more jets not available, E124_nnHbb used for now
- Treat Ntrk>1 as 1 for multipletracks
- Purity = $\frac{TRK \text{ Hits}}{MC \text{ Hits}}$
- Denominator: charged stable MC particle, exclude
 - 1. pT < 100 MeV
 - 2. $cos(\theta) > 0.99$
 - 3. starting-point > 10 cm
 - 4. decayed in tracker
- Numerator: reconstructed tracks with purity > 0, 75 %
- NO BKG

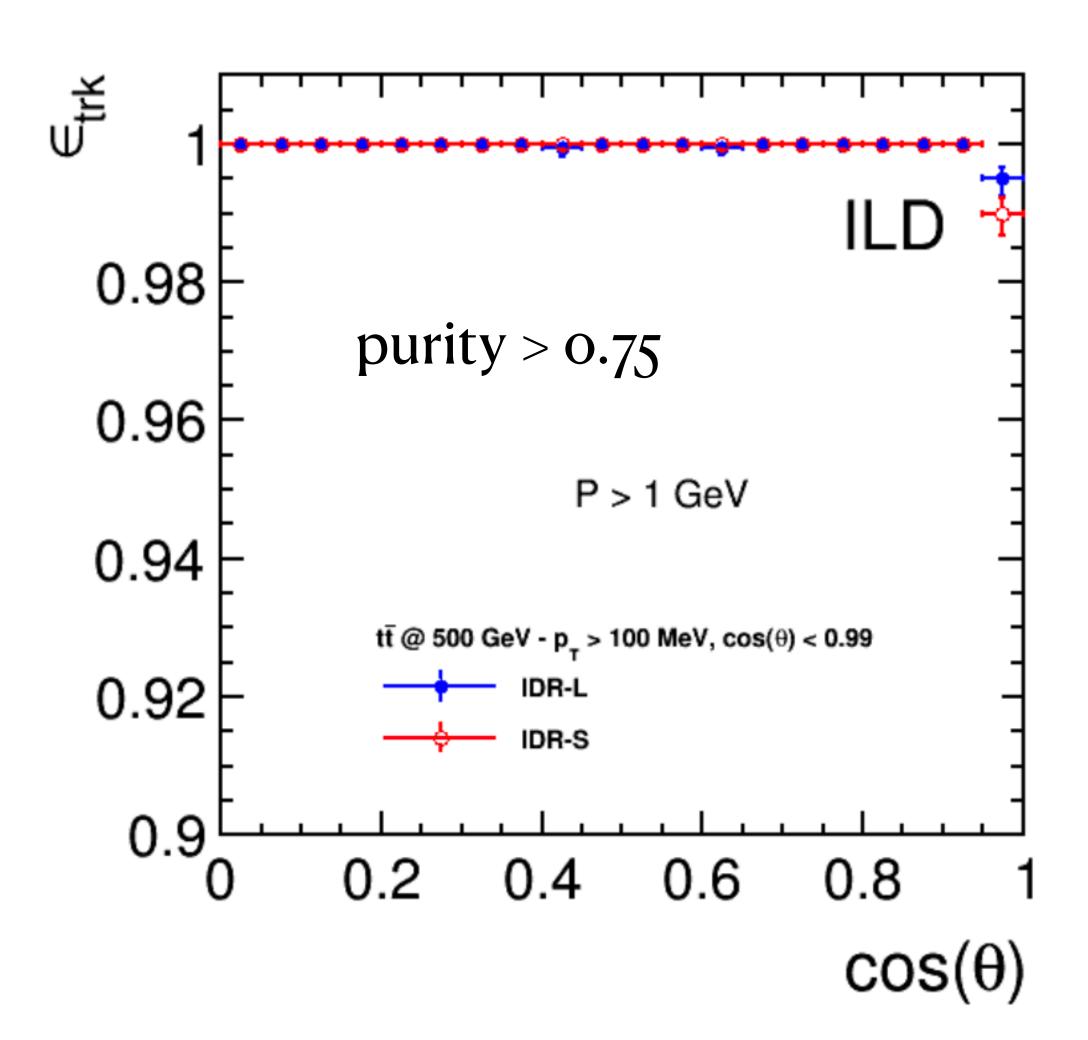


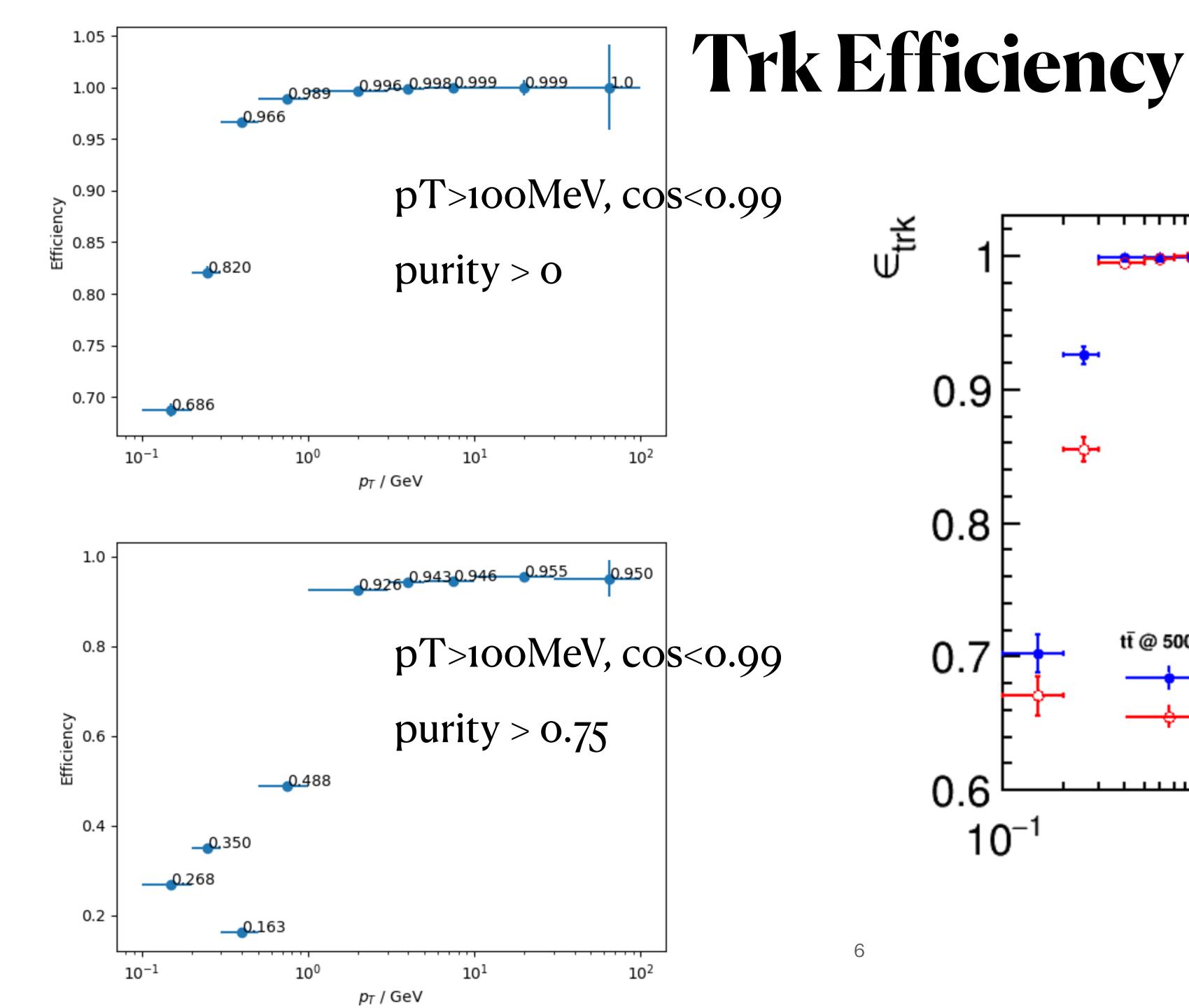


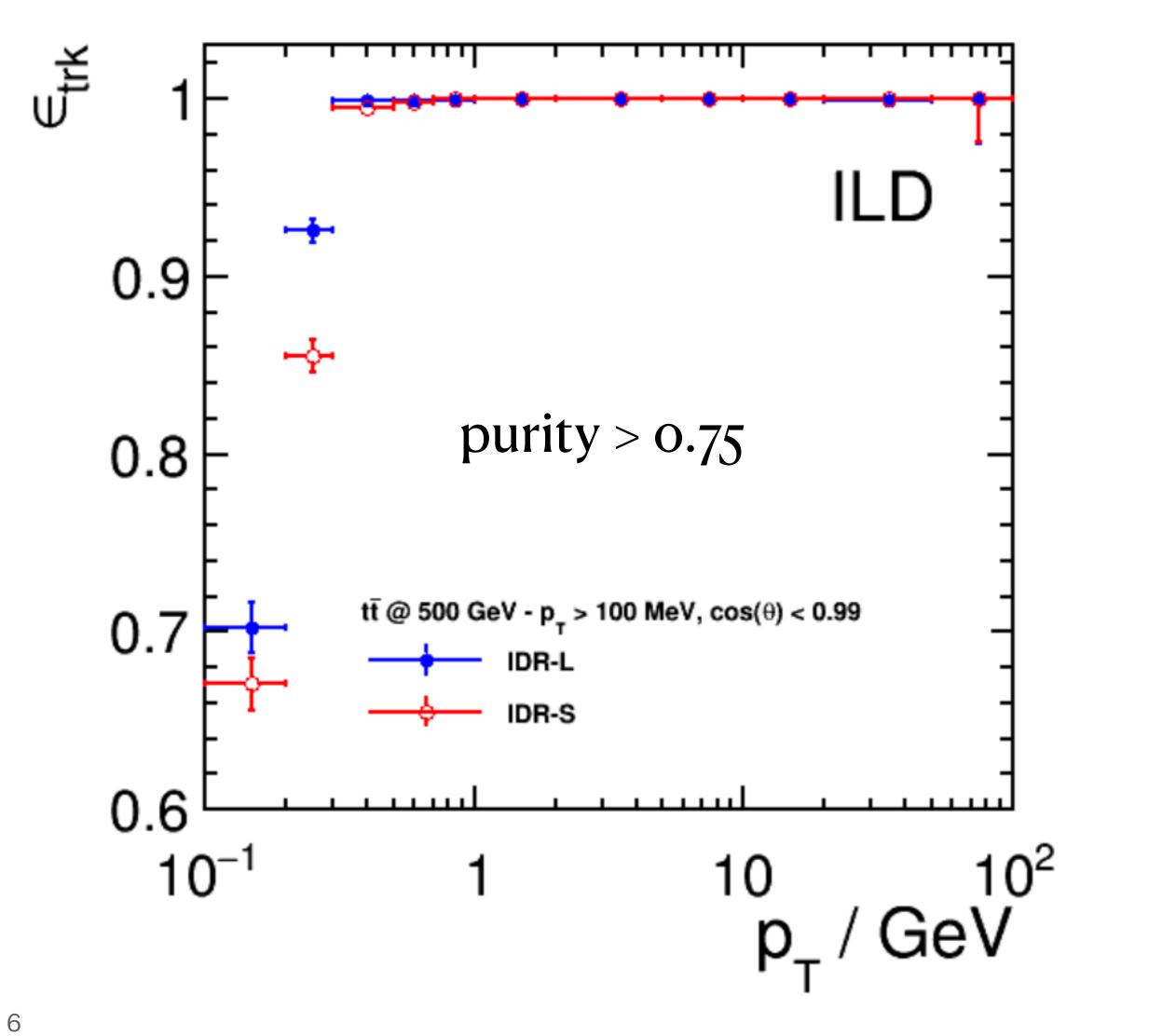


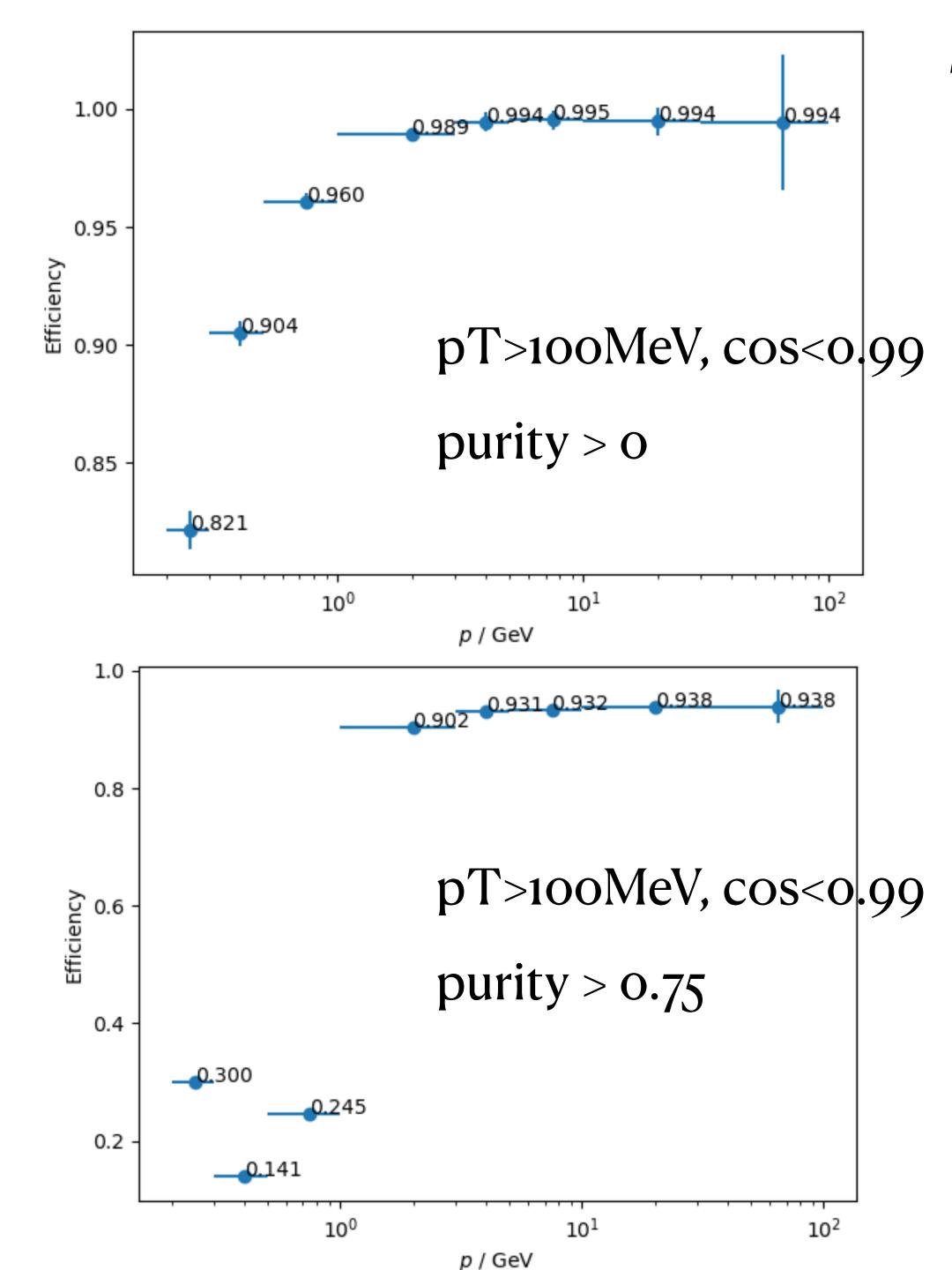


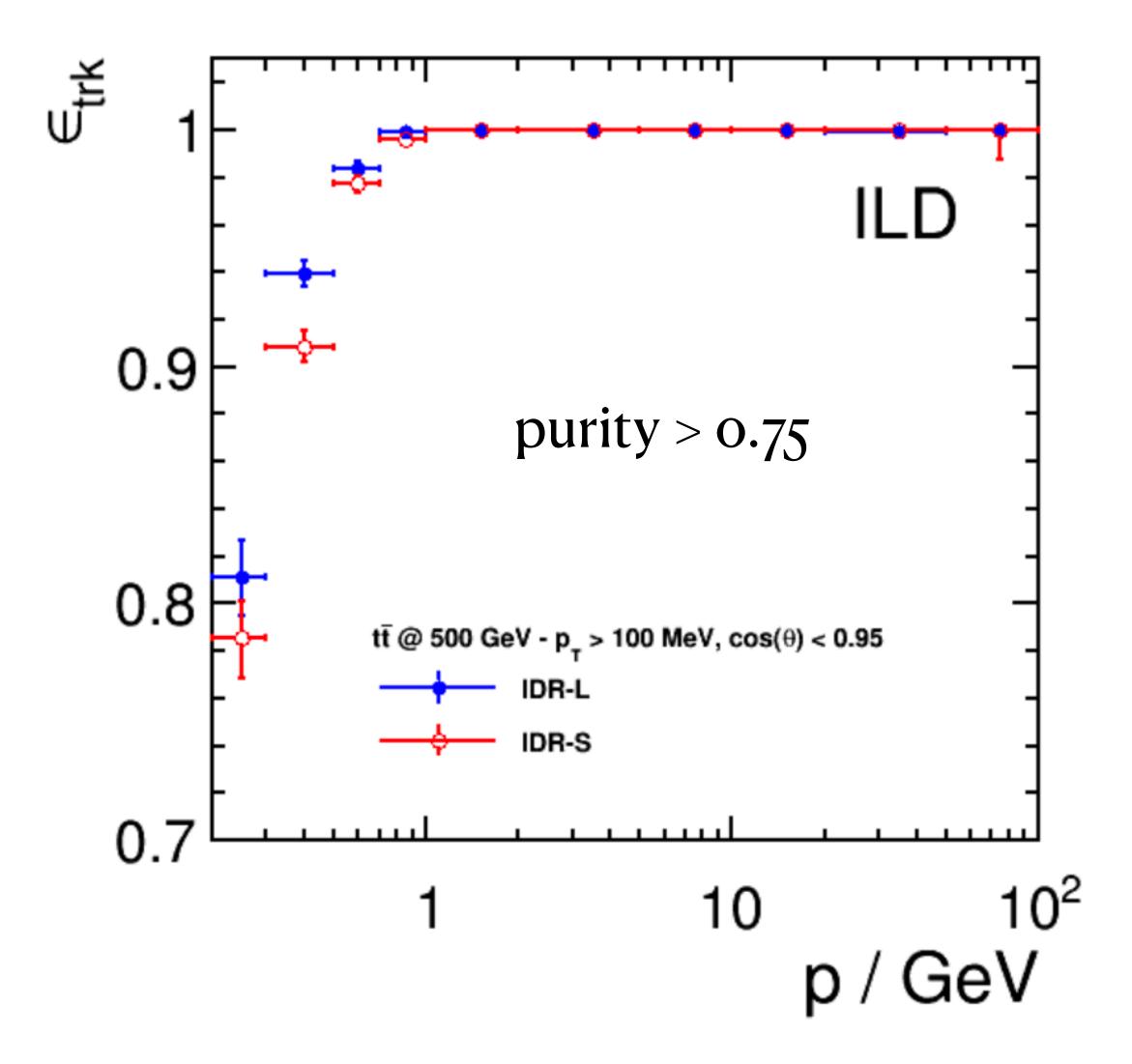




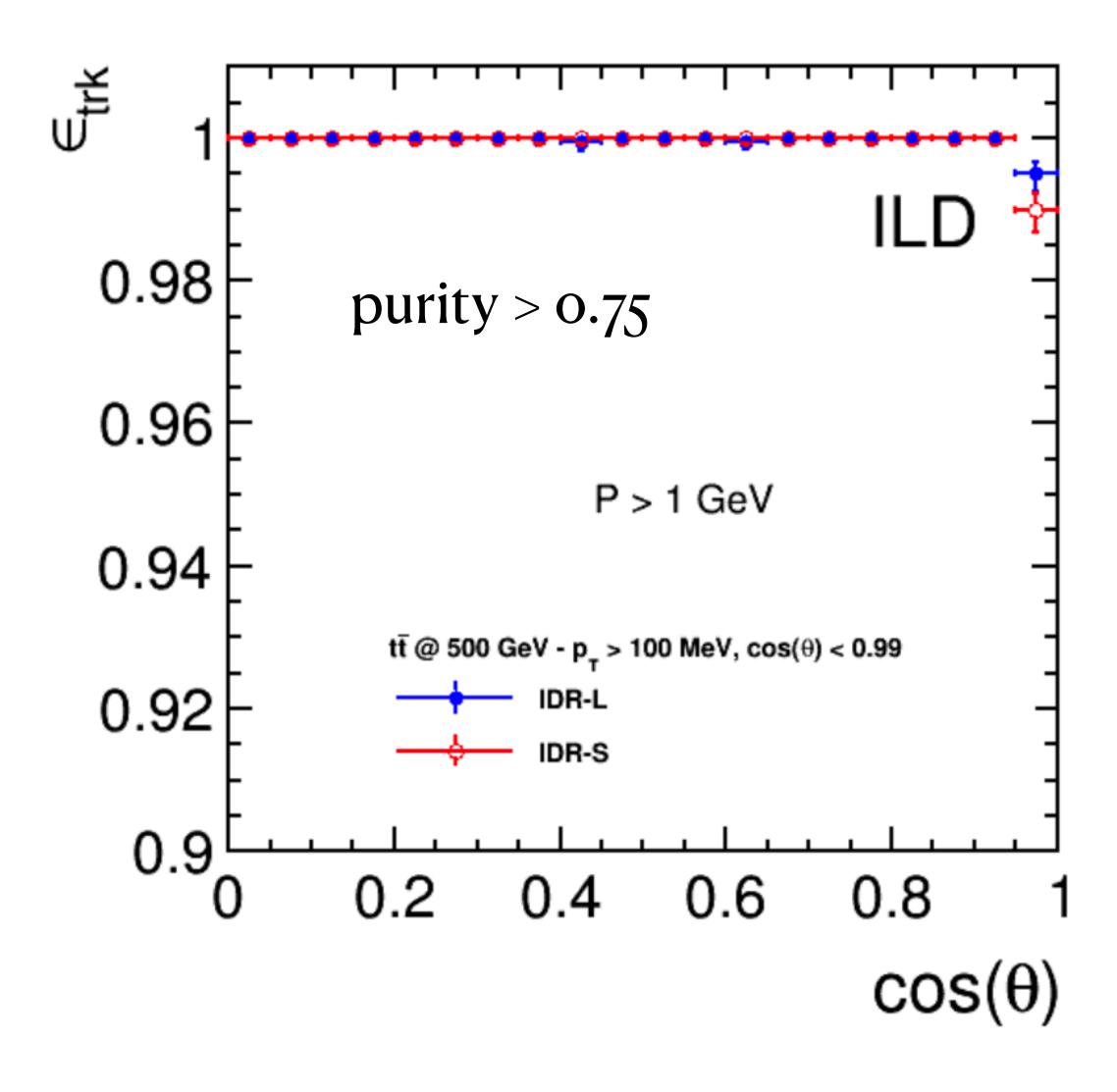




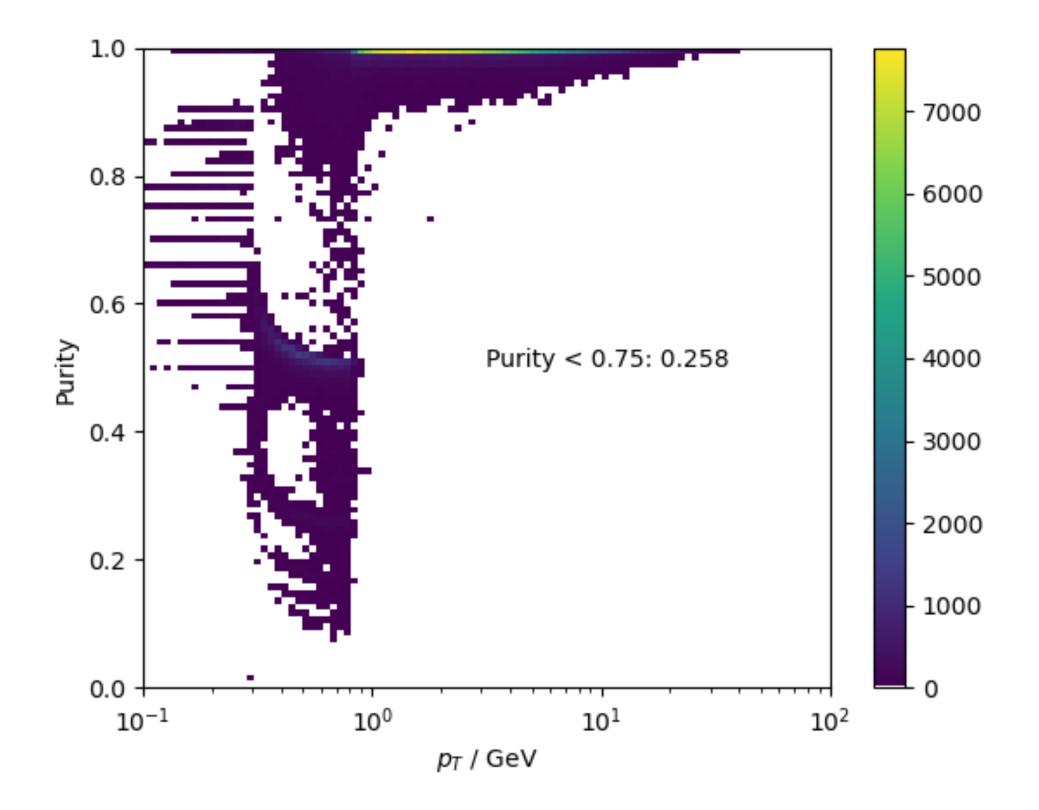




0.998 0.999 0.999 0.999 0.999 0.998 0.999 0.998 1.00 0.98 Efficiency 96 96 p>1GeV, pT>100MeV, cos<0.99 0.94 purity > 0 0.921 0.92 0.0 0.2 0.4 0.6 0.8 1.0 $cos(\theta)$ 0.95 0.90 p>1GeV, pT>100MeV, cos<0.99 Efficiency 9.0 9.0 purity > 0.75 0.754 0.75 -0.6 0.2 0.4 0.8 0.0 1.0 $cos(\theta)$



• E124_nnHbb, Gen_pT vs. Purity



- By the way, define Purity=o as fake, then fake ratio = o.
- No data no plot, Ready for BKG

