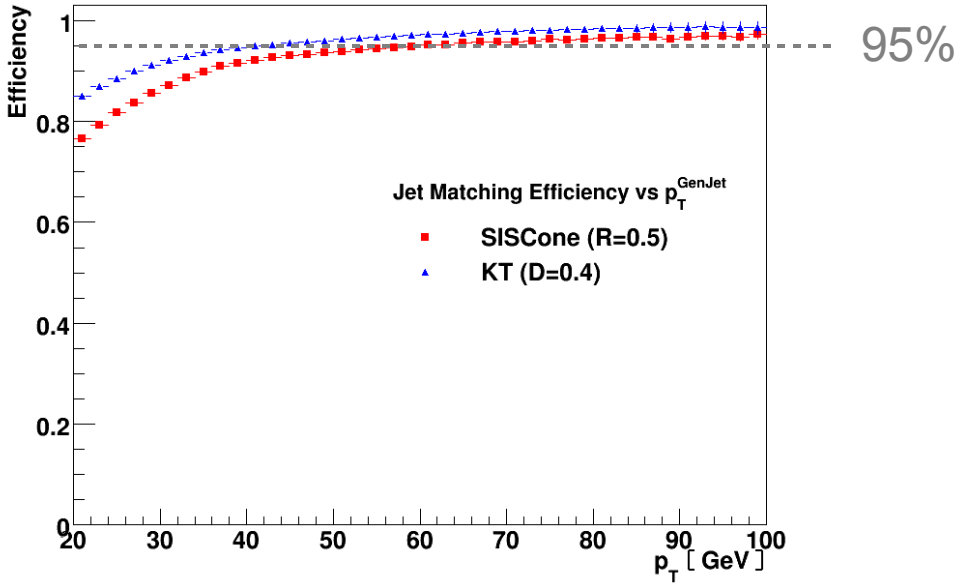
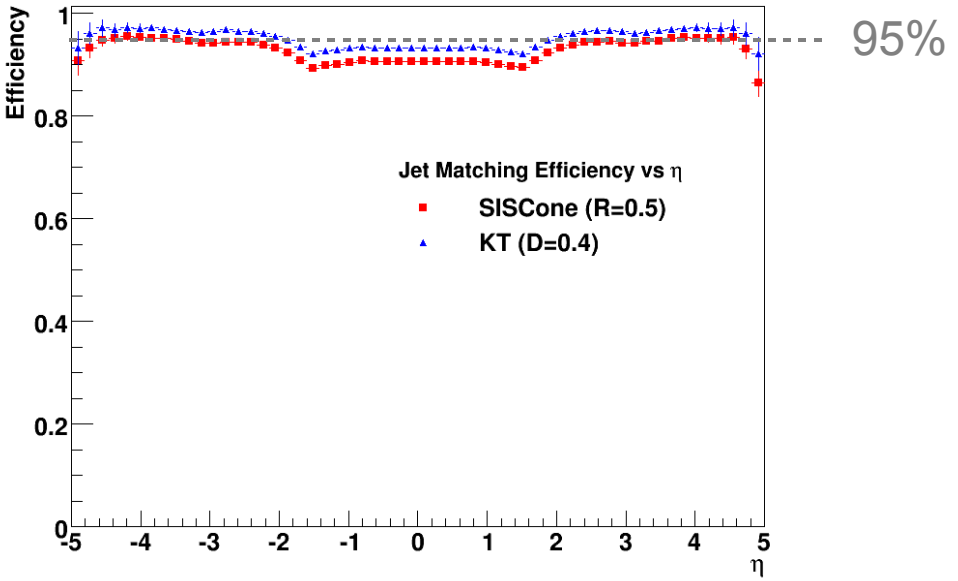
Jet Matching Efficiency

• The jet matching efficiency is defined as the ratio of the number of generated jets that match a calorimeter jet to the total number of generated jets.

• A generated jet was considered to be matched if the nearest calorimeter jet was within a distance $\Delta R^2=\Delta\eta^2+\Delta\phi^2< 0.25$





- Jet matching efficiency vs p_T^{Gen} ;
- The efficiency decreases for p_T<50GeV up to ~80% for SC5 and 85% for KT4;

- Jet matching efficiency vs η;
- The efficiency are practically flat at 1.0 except close to the detector boundary $|\eta|$ ~5.0 and in the transition region;