

# Muon efficiency sequence

## Tag Selection

- Global Muons.
- $p_T > 20 \text{ GeV}/c$ .
- Track isolation
- Trigger: Mu9

## Probe Selection

- $p_T > 20 \text{ GeV}/c$ .
- Fit the tag-probe invariant mass to get the number of signal events.

Obtain factorized efficiencies for passing probes:

Tracker Muon → Standalone Muon → Isolation → HLT

offline muon reconstruction  
efficiency w.r.t. acceptance

muon trigger  
efficiency w.r.t.  
offline selection