C.Zhang/20Jan2025





- Samples with 4 or more jets not available, E124\_nnHbb used for now
- Treat Ntrk>1 as 1 for multiple-tracks ۲
- ۲





# **Trk Efficiency**

## **Trk Resolution**



Log-coordinate plot of position resolution at different angles

- Single muon
- Fig(a), pT resolution issue at low pT region is still there
- Checked tracking resolution from other perspectives, overall its performance is fine
- To find a function describing  $d_0 vs \cdot p$
- More plot see <u>Zhuhao' talk</u>



## Lepton PID



- Electron working point: E(ecal)/p(trk) > 0.9
- Muon working point:  $\chi^2_{ECAL} < 3 \& \chi^2_{HCAL} < 3$ 
  - $\chi^2_{\text{HCAL}}(2\text{GeV}) = (\frac{E_{\text{HCAL}} 0.348}{0.066})^2, \chi^2_{\text{ECAL}}(2\text{GeV})$
- To-do: More info./tech. can be used for further improvement; Combination with TPC&TOF

Ligang Xia, Changhua Hao (NJU)

$$V) = (\frac{E_{\text{ECAL}} - 0.05}{0.0083})^2$$

## Hadron PID





- New dNdx algorithm available
  - Improvement in high momenta region is clear
  - New issue in the LUT around 1-10 GeV, working in progress

