

LUT spot checks with new magnetic field map

pfRICH software meeting

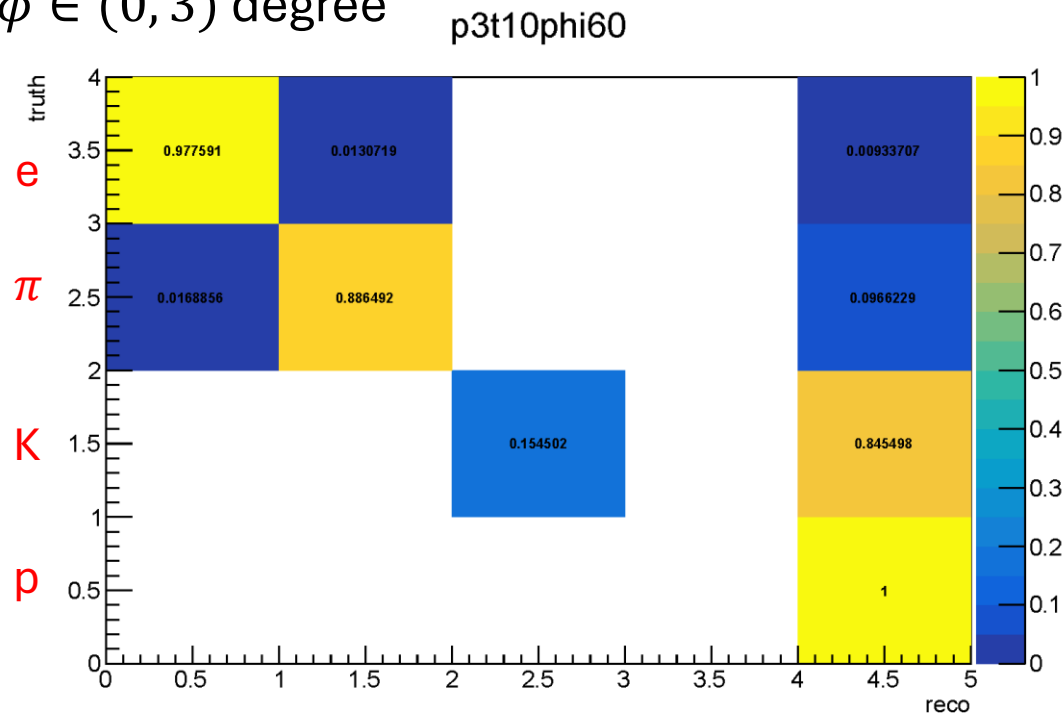
Youqi Song (Yale)

6/10/24

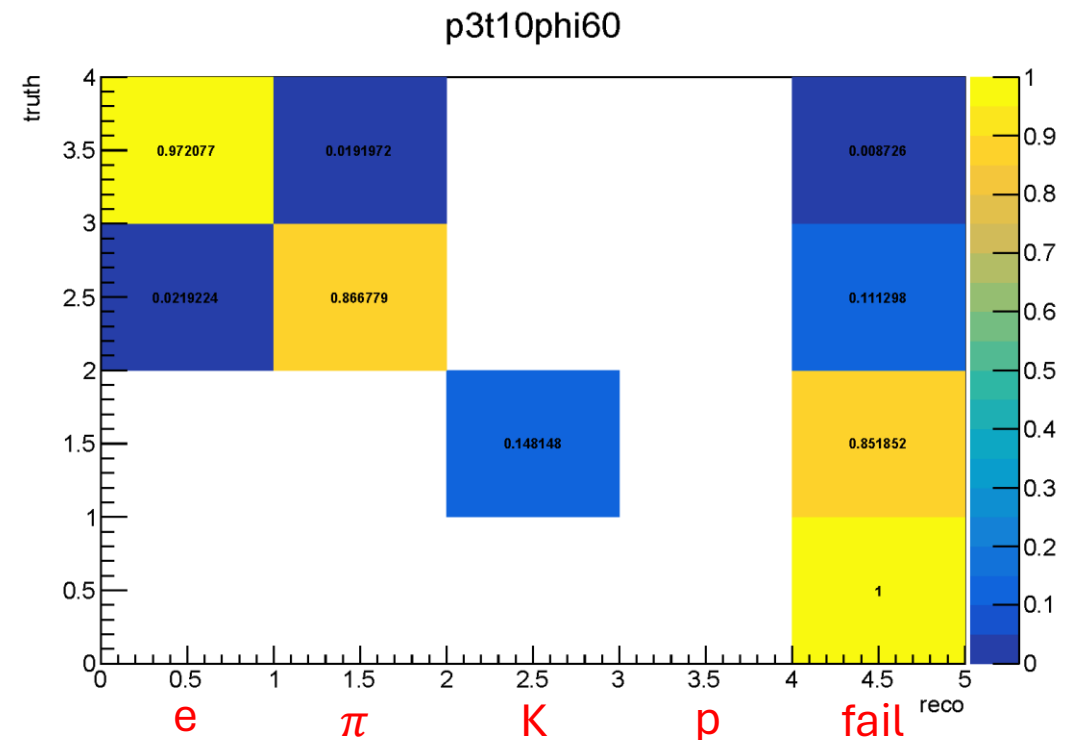
Setup and selection 1

- May campaign: 200,000 particles thrown (50,000 e, π , K, p each), flat in:
 - $p \in (0.1, 15)$ GeV, $\theta \in (2.65, 3.1)$, $\phi \in (-\pi, \pi)$
- Kinematics selection:
 - $p \in (1.6, 2.0)$ GeV
 - $\theta \in (2.875, 2.8975) \rightarrow \eta \in (-2.10, -2.01)$
 - $\phi \in (0, 3)$ degree

- Spot check: half statistics so far



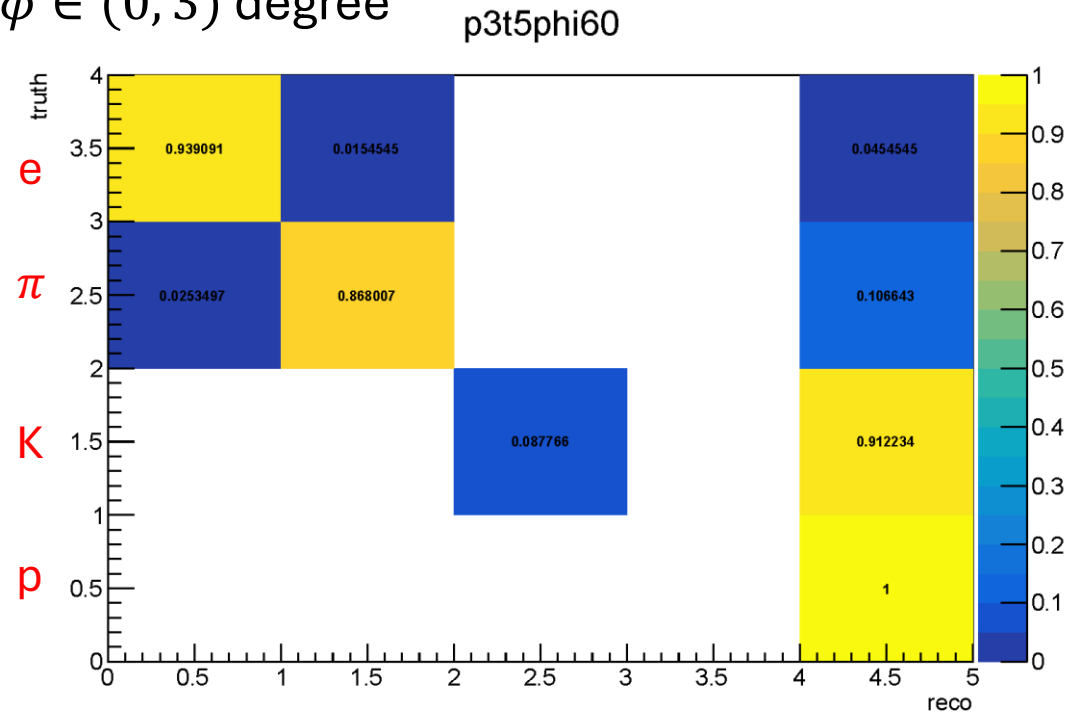
May campaign



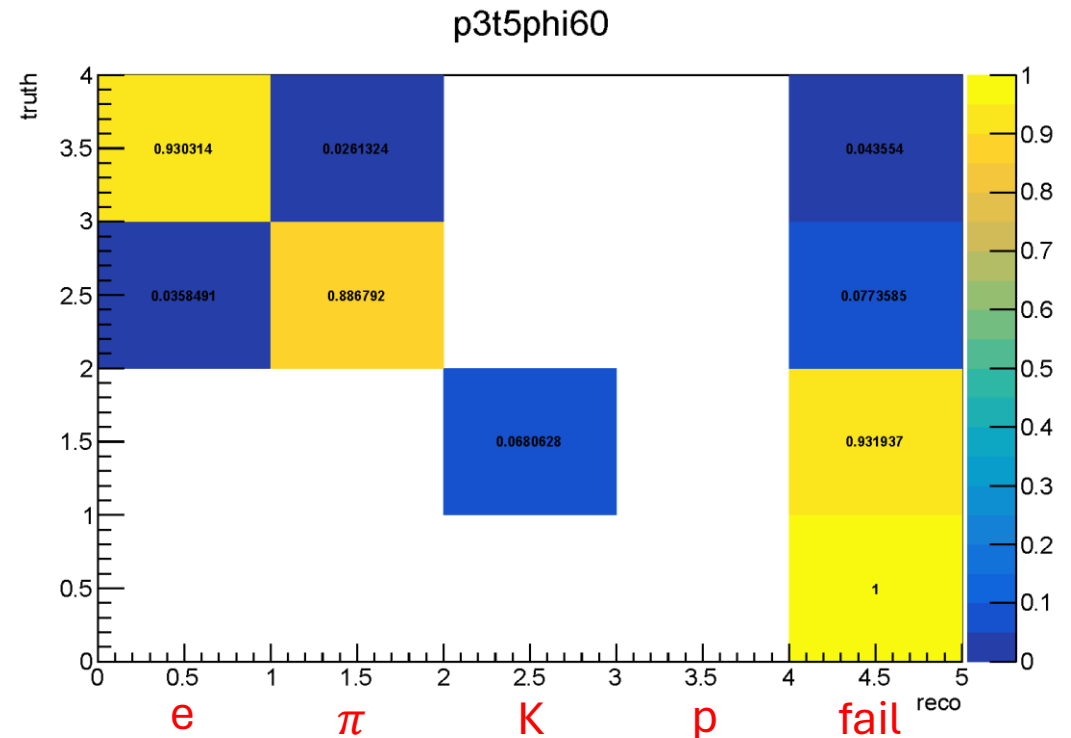
Spot check

Selection 2

- Kinematics selection:
 - $p \in (1.6, 2.0)$ GeV
 - $\theta \in (2.7625, 2.785) \rightarrow \eta \in (-1.71, -1.65)$
 - $\phi \in (0, 3)$ degree



May campaign



Spot check

Selection 3

- Kinematics selection:
 - $p \in (1.6, 2.0)$ GeV
 - $\theta \in (2.875, 2.8975) \rightarrow \eta \in (-2.10, -2.01)$
 - $\phi \in (9, 12)$ degree

