

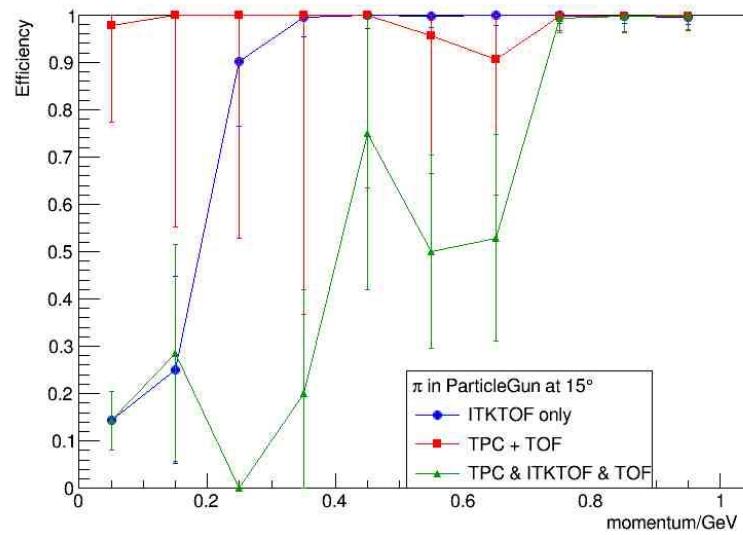


ITK&OTK ToF & TPC PID combination study

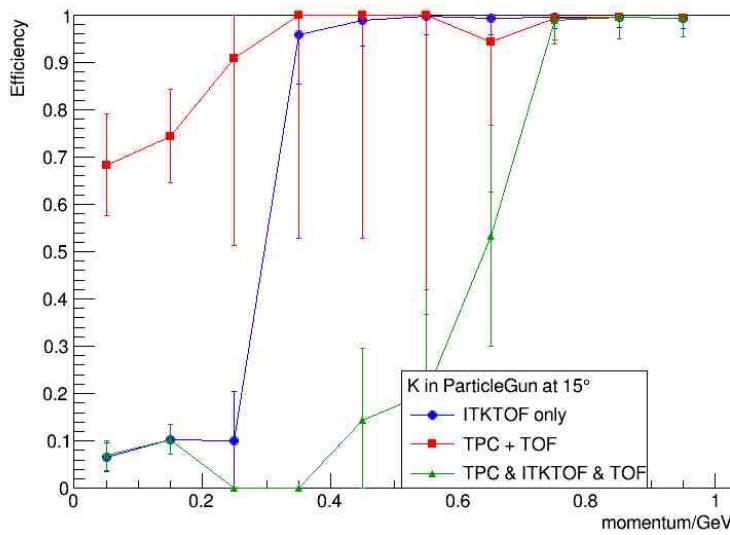
Dian Yu

25Mar14

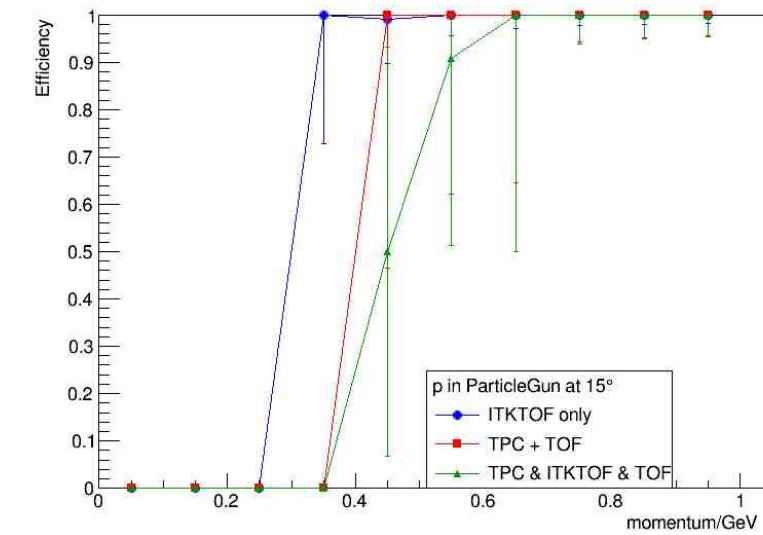
Particle Gun at 15°



pion



kaon



proton

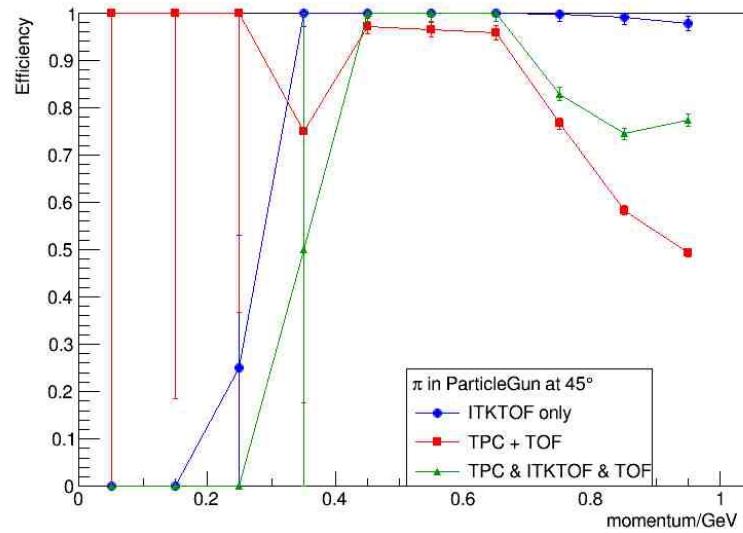


Particle Gun at 45°

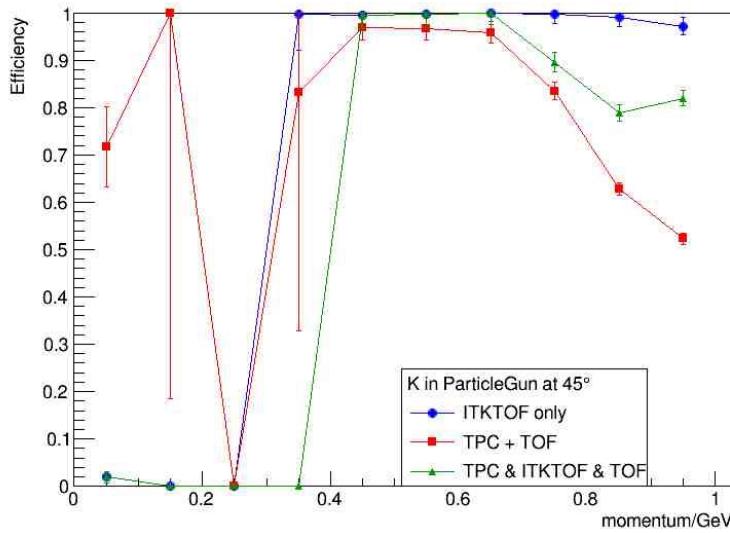


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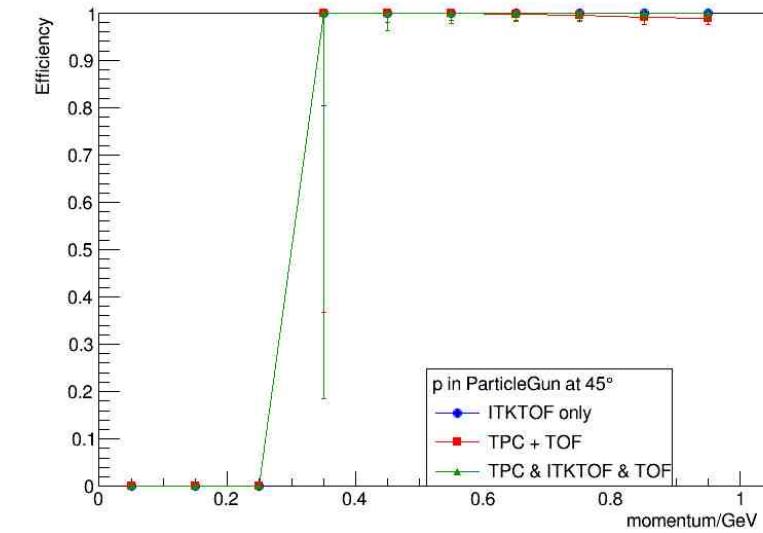
李政道研究所
Tsung-Dao Lee Institute



pion



kaon



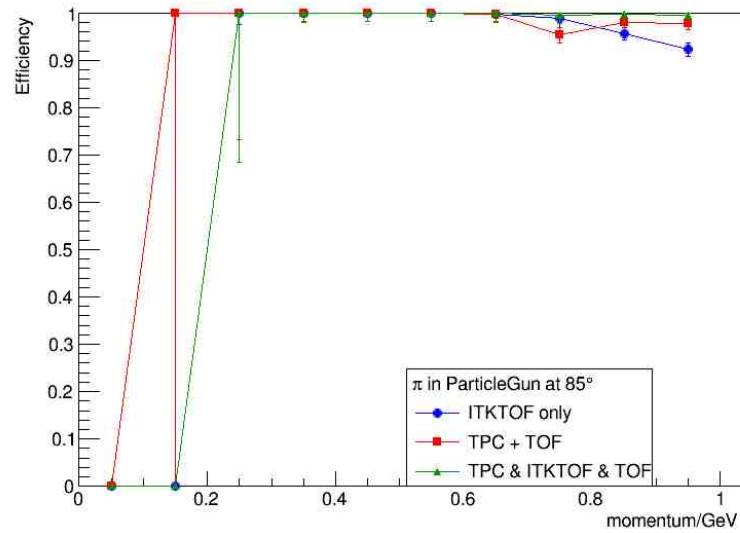
proton



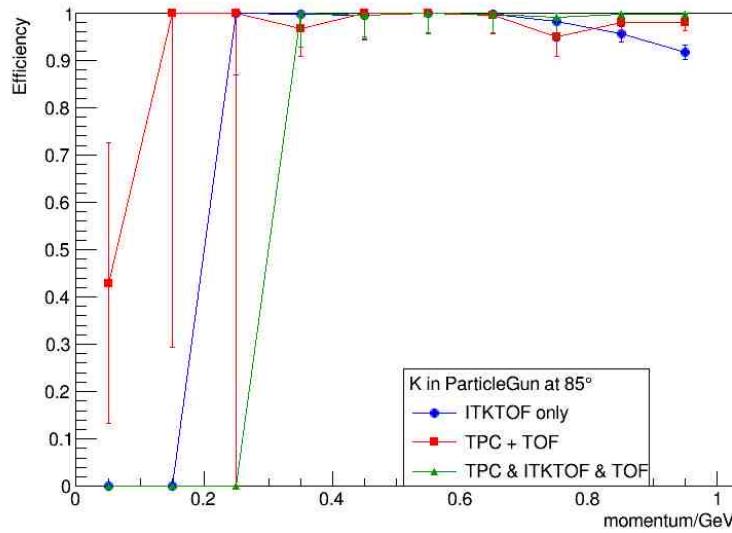
Particle Gun at 85°



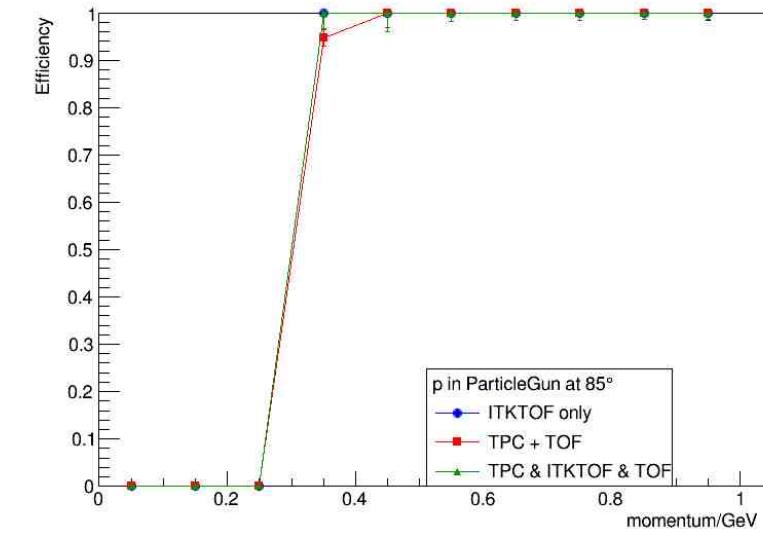
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pion



kaon



proton

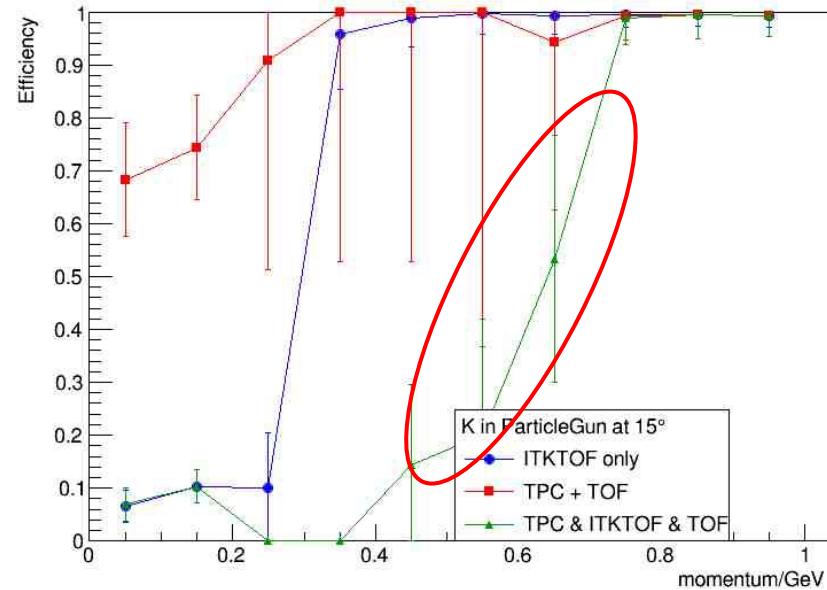


Problems find in Particle Gun Simu

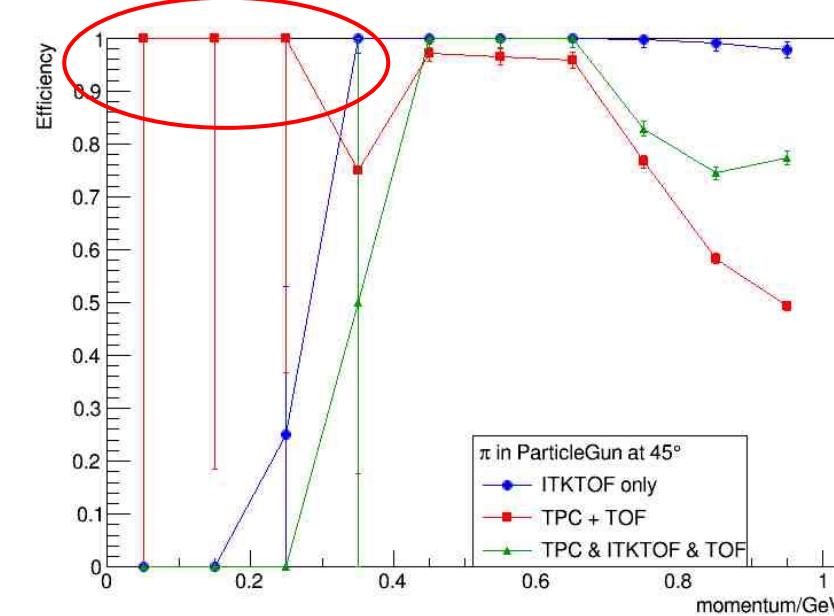


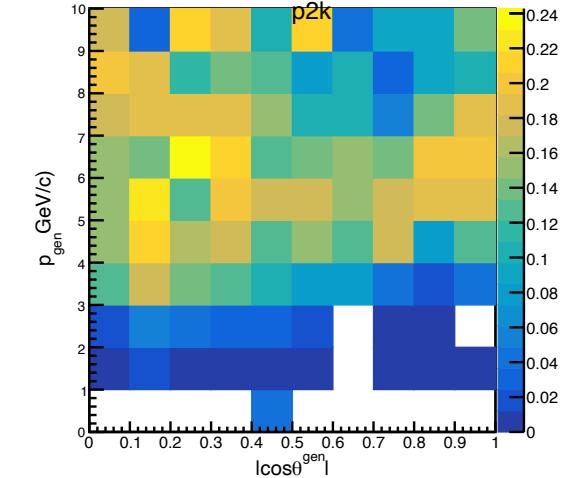
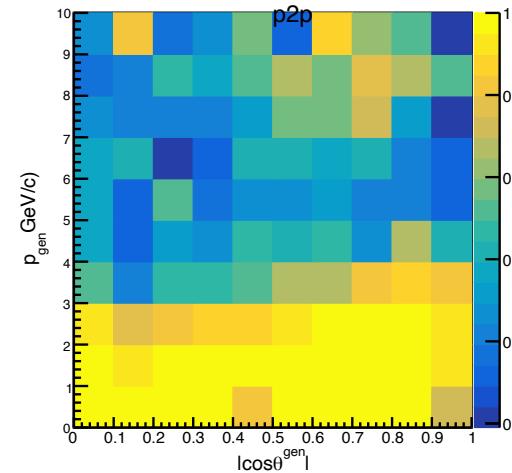
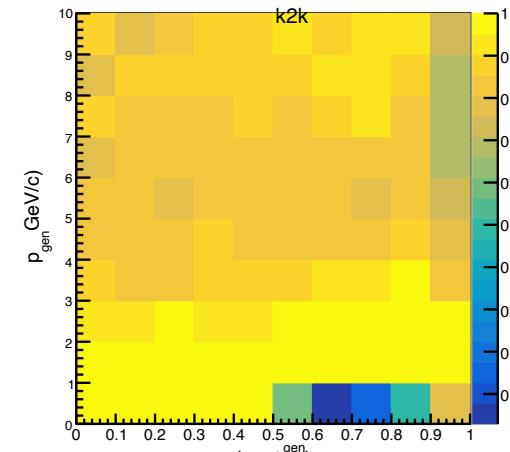
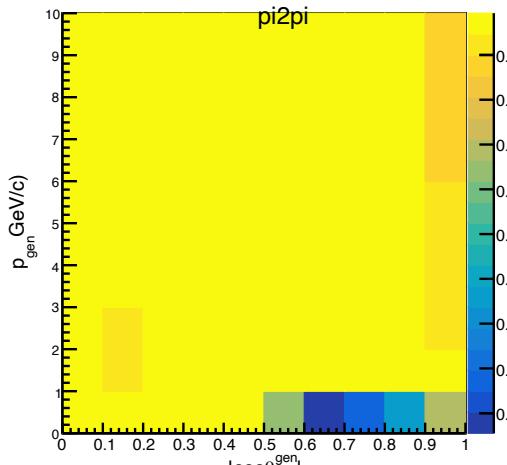
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1. ToF affects PID under 0.8GeV



2. TPC under 0.2GeV ???





1. For pion and kaon: good

2. Proton with $p > 3 \text{ GeV}$

1. Discuss pid combination method
2. Figure TPC pid eff at $p < 0.2$
3. Plot the Zqq 3D graph in $0 \sim 1\text{GeV}$
4. See more channels