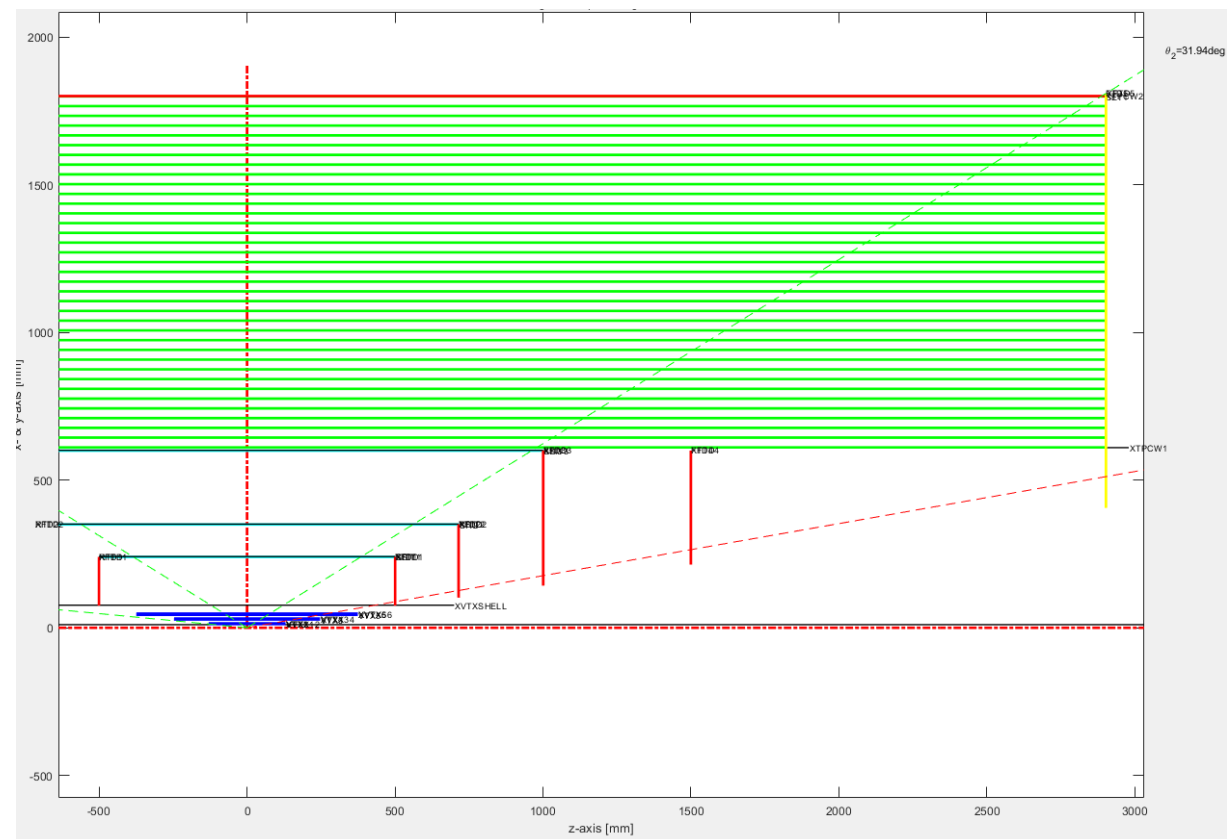


Residual distribution of σ_{pt} at different Pt with fast simulation

8.28 耿青林

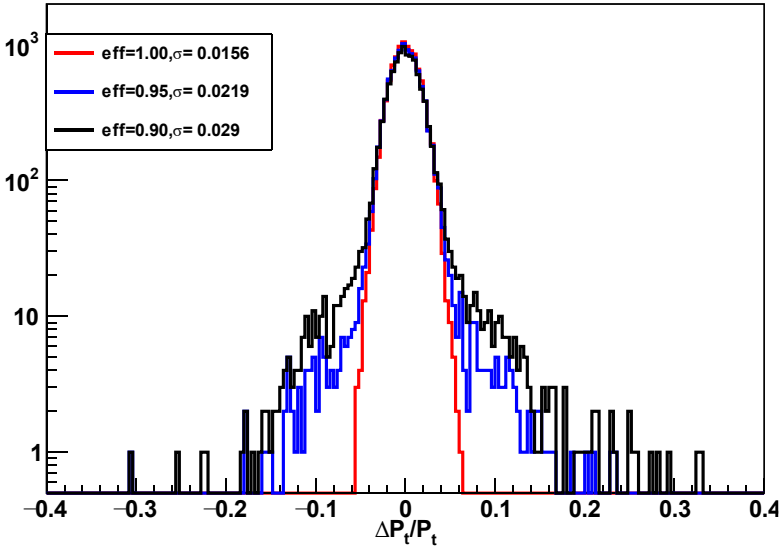
Global layout of tracking system

[illegible]

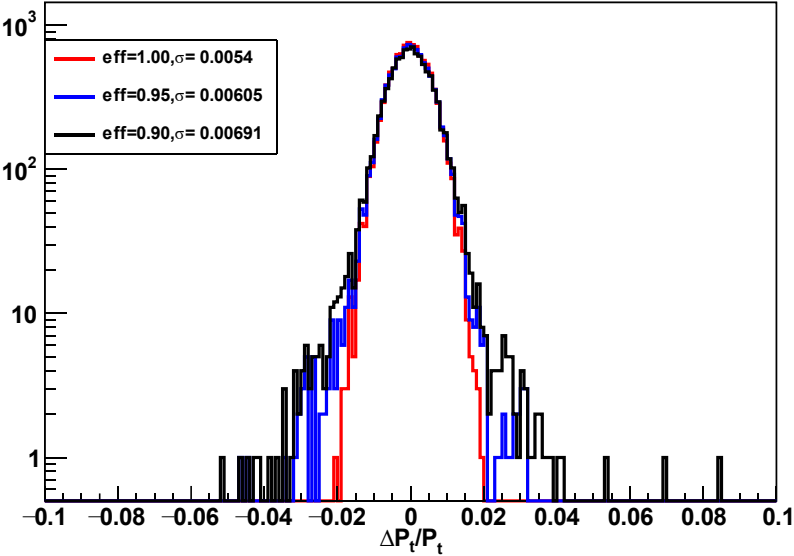
模拟中入射的角度选为 10° ，即只穿过VTX和端盖部分。把ITKE和OTKE的效率分别设为**1.00**，**0.95**，**0.90**三个不同的值，观察在 $P_t=2,10,100\text{GeV}$ 下，动量分辨的残差分布。

residual distribution of σ_{Pt}

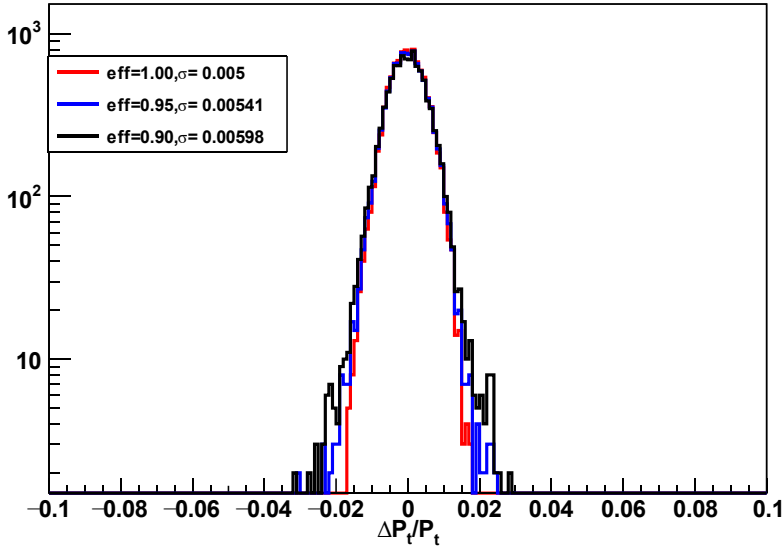
$\Delta(P_t)/P_t @ P_t=100\text{GeV}, \theta=10^\circ$



$\Delta(P_t)/P_t @ P_t=10\text{GeV}, \theta=10^\circ$



$\Delta(P_t)/P_t @ P_t=2\text{GeV}, \theta=10^\circ$



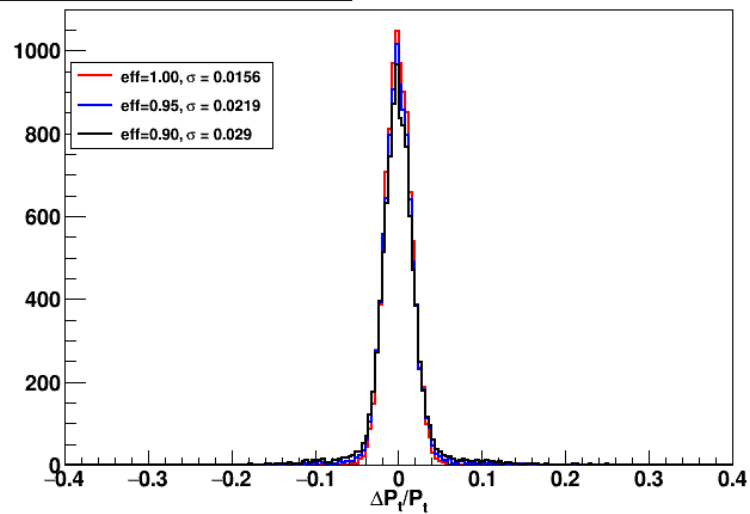
$\text{events}_{(\text{between } \pm 3\sigma)} / \text{events}_{(\text{total})}$

eff \ Pt	2	10	100
100%	99.8%	99.8%	99.8%
95%	99.2%	98.8%	97.6%
90%	98.4%	97.6%	94.8%

pt分辨的残差分布未观察到明显拖尾现象，效率的降低对分辨影响较明显。

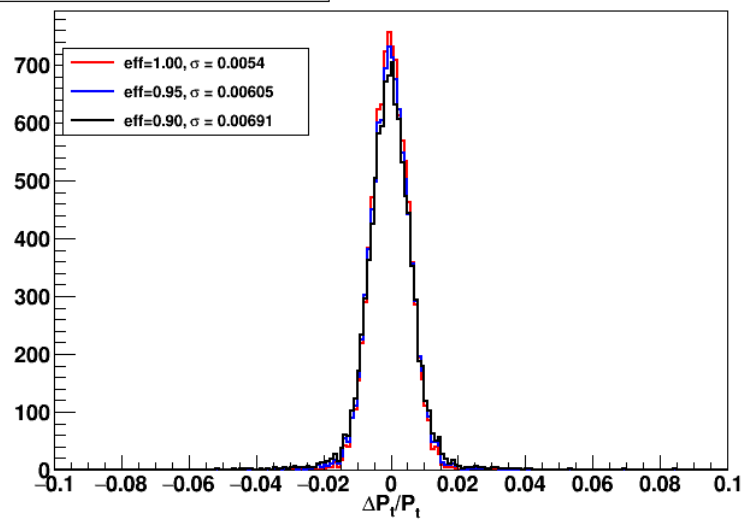
backup

$\Delta(P_t)/P_t$ @ $P_t=100\text{GeV}$, $\theta=10^\circ$



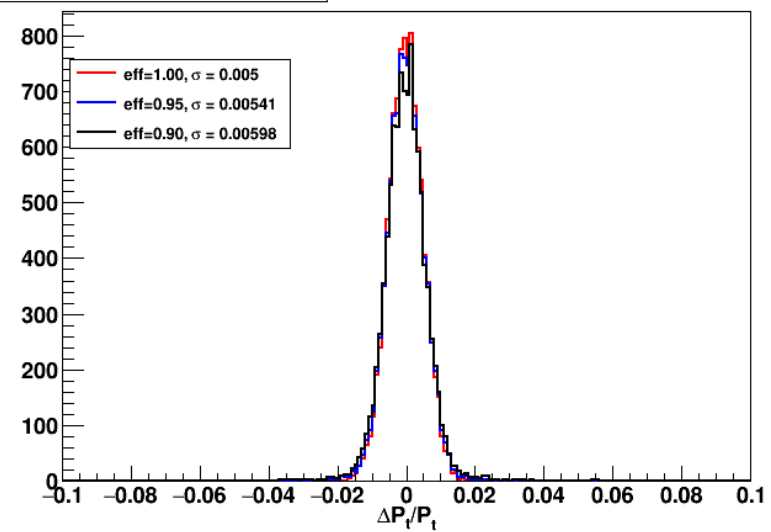
Pt=100GeV

$\Delta(P_t)/P_t$ @ $P_t=10\text{GeV}$, $\theta=10^\circ$



Pt=10GeV

$\Delta(P_t)/P_t$ @ $P_t=2\text{GeV}$, $\theta=10^\circ$



Pt=2GeV