

TOF Efficiency

pmalinow

November 2023

- positive probe, efficiency = 74.32%

$$- N_K^{w/oTOF} = 75$$

$$- N_K^{w/TOF} = 217$$

- negative probe, efficiency = 70.92%:

$$- N_K^{w/oTOF} = 89$$

$$- N_K^{w/TOF} = 217$$

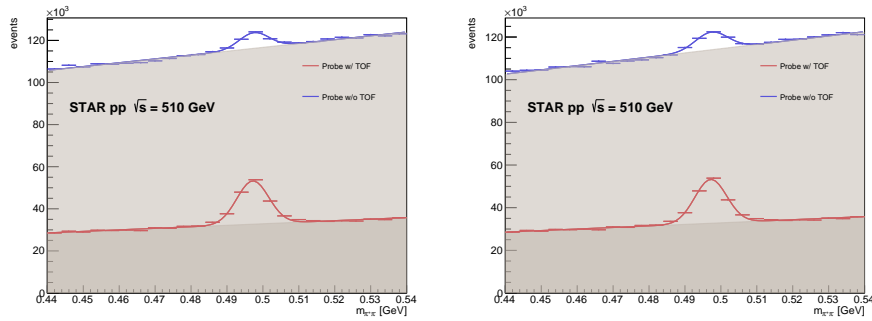


Figure 1: Data: Efficiency as a function of the $m_{\pi\pi}$ for positive (left) and negative (right) probe

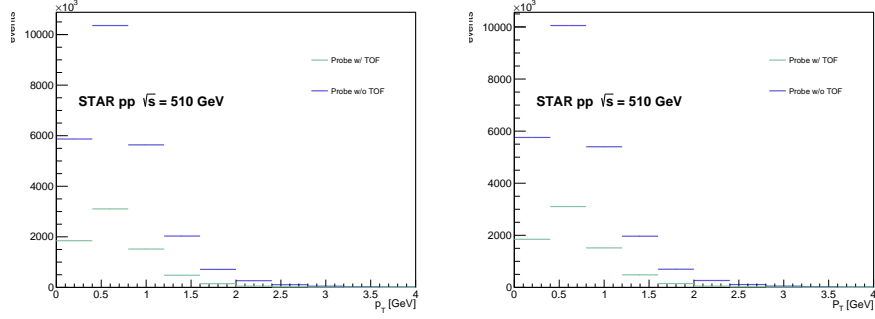


Figure 2: Data: Efficiency as a function of the kaon p_T for positive (left) and negative (right) probe

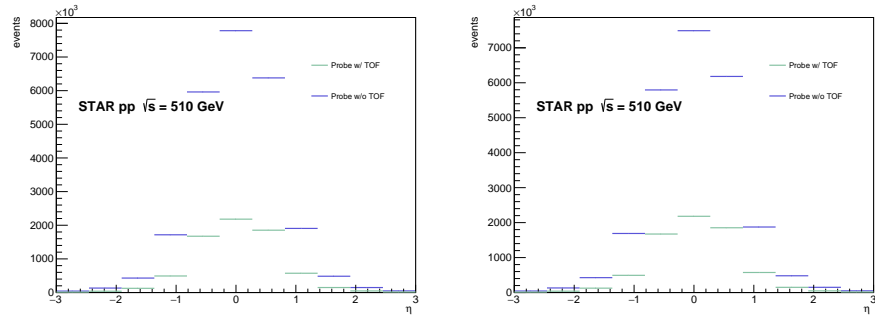


Figure 3: Data: Efficiency as a function of the kaon η for positive (left) and negative (right) probe

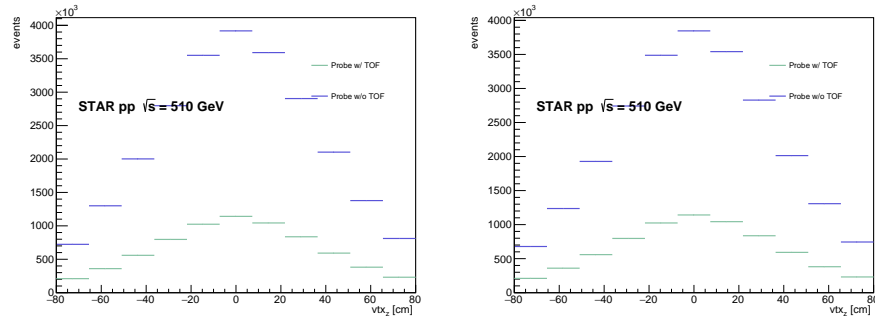


Figure 4: Data: Efficiency as a function of the z coordinate of the vertex position for positive (left) and negative (right) probe

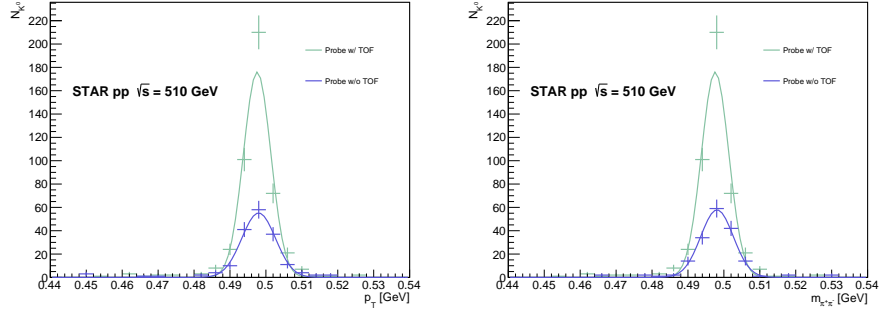


Figure 5: MC: Efficiency as a function of the $m_{\pi\pi}$ for positive (left) and negative (right) probe

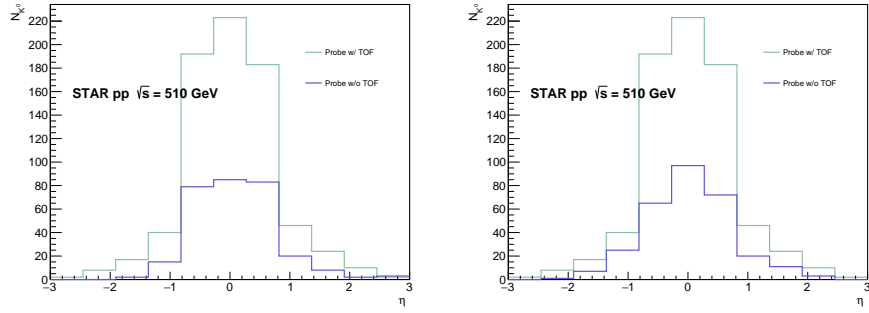


Figure 6: MC Efficiency as a function of the kaon p_T for positive (left) and negative (right) probe

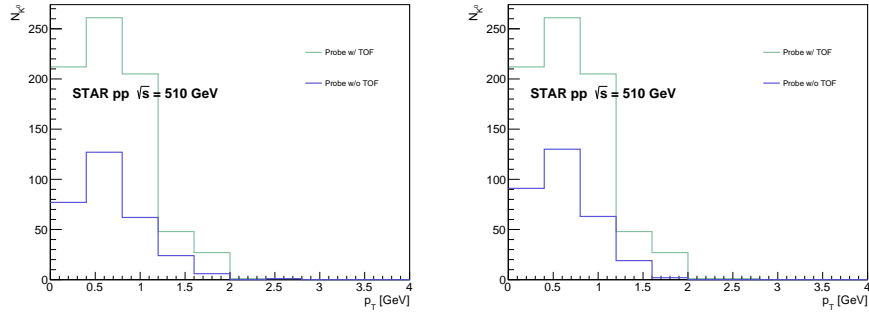


Figure 7: MC Efficiency as a function of the kaon p_T for positive (left) and negative (right) probe

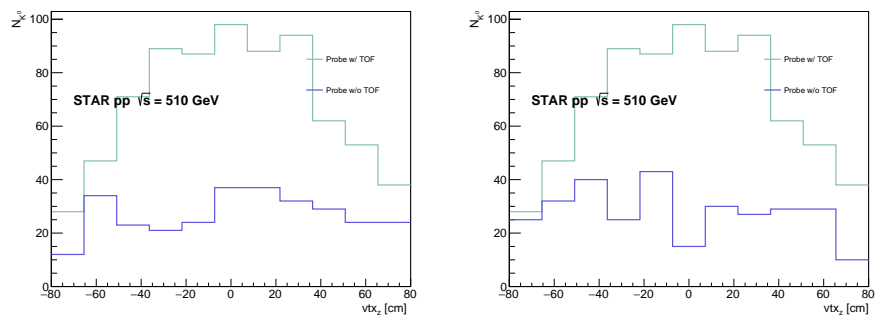


Figure 8: MC: Efficiency as a function of the z coordinate of the vertex position for positive (left) and negative (right) probe