\[ 2 \left( \sin(\phi + \phi_S) \right) \frac{\pi}{\sigma_T} \]

\[ 2 \left( \sin(\phi + \phi_S) \right) \frac{K}{\sigma_T} \]

Graphs showing the distribution of \( \sin(\phi + \phi_S) \) for different particles: \( \pi^+, \pi^0, \pi^-, K^+, K^- \), with axes labeled as \( x, z, p_{h\perp} \text{[GeV]} \).