



Figure 23: The K_L and neutron momentum spectra on the cryogenic target. Left: Rate of K_L (red) and neutrons (blue) on the LH_2/LD_2 cryogenic target of Hall D as a function of their generated momenta, with a total rate of $1 \times 10^4 K_L/\text{sec}$ and $6.6 \times 10^5 n/\text{sec}$, respectively. Kaon calculations were performed using Pythia generator [109] while neutron calculations were performed using the MCNP transport code [102]. Right: Experimental data from SLAC measurements using a 16 GeV/c electron beam were taken from Ref. [112] (Figure 3).