



量子物理学・ナノサイエンス第 381 回セミナー

K-Long Experiment at Jefferson Lab

- 講師** : Professor Igor Strakovsky
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- 日程** : 2月22日(木) 15:30-17:00
- 場所** : 本館2階 227B 物理学系輪講室

概要

KLF project must establish a secondary KL beam line at Jefferson Lab with flux of three orders of magnitude higher than SLAC had, for scattering experiments on both proton and neutron (first time) targets in order. To determine differential cross sections and self-polarization of strange hyperons with GlueX detector to enable precise PWA to determine all resonances up to 2500 MeV in spectra of L, S, X, and even W. In addition, we intend to do strange meson spectroscopy by studies of the pion-Kaon interaction to locate the pole positions in $I = 1/2$ and $3/2$ channels. KLF has links to ion-ion high energy facilities such as CERN and BNL and will allow us to understand the formation of our world in several microseconds after the Big Bang. Reference: arXiv:2008.08215 [nucl-ex]

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