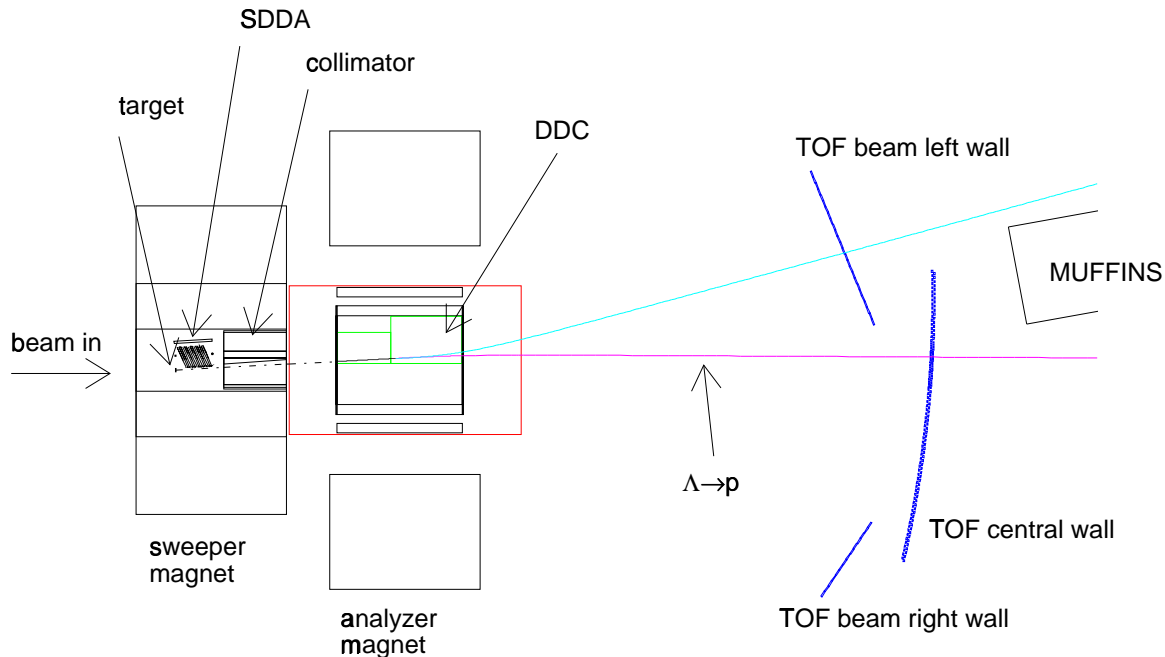


Time-of-flight Analyses of 11.5 GeV/c/N Au+Au Collisions in BNL-AGS Experiment 896

- E896 intended to search for H_0 ; also sensitive to Λ , K_s
- as proposed, PID was to be indirectly performed via Armanteros plots
 - backgrounds ($K_s \rightarrow \pi^+\pi^-$, $n+X$, $\gamma+X$) that resemble $\Lambda \rightarrow \pi^-p$?
- TOF array added to E896 to provide direct PID for one or both daughters of V_0 candidates



- Goals:
 - build upon prior Λ reconstruction analyses in DDC (S. Kelly, Ph.D. Thesis, UCLA (2000))
adding flight time information for daughters
 - rates, spectra for Λ , K_s in E896 DDC with TOF info
 - cleaner samples of these particles (at cost in rate)
 - better understanding of backgrounds in previous analyses, based on additional PID information