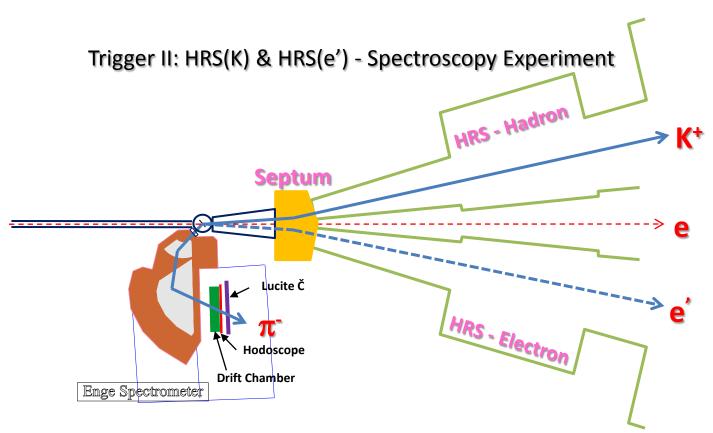
## E10-001: Study of Light Λ-Hypernuclei by Spectroscopy of Two Body Weak Decay Pions

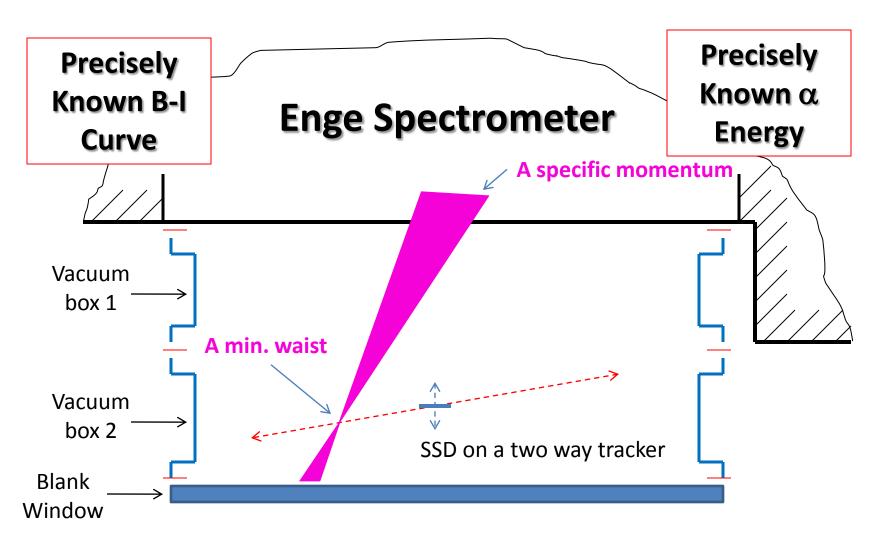
- Conditionally approved as we expected
- PAC supports our request for 5 days test in Hall A
- We have about two years to prepare Enge and the needed equipment or parts
  - Enge optics study by  $\alpha$  source (Po-210, 5,304.33 $\pm$ 0.07keV) and precise B-I measurement
  - New vacuum extension boxes with tracker and one SSD
  - New target chamber with target ladder
  - New Enge support
  - New or refurbished sieve slit plate and new vacuum connection to the Hall A target chamber
  - Detectors and supports
- We need supports from Hall A and C, and Engineering Group

## **Hall A Experimental Layout**



Trigger I: HRS(K) & Enge( $\pi$ ) - Decay Pion Experiment

## **Enge Optics Calibration**



Vacuum box 2 is in place for experimental detectors

## Source, Target and Calibrations

