

# Pair Spectrometer Alignment and Survey for PrimEx II

FRONT DETECTORS  
(Position of center of detector closest to the beam.)

$x = 197.3\text{cm}$

$y = + - 22.1\text{ cm}$

where  $(0,0)$  is at physics target.

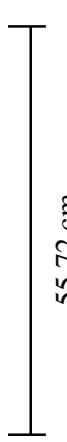
Use taped on targets on downstream side of detectors.



Target

Magnet  
Center

Detector assemblies all rotated 10.3 degrees.



55.72 cm

REAR DETECTORS  
(Again, position of center of detector closest to the beam.)

$x = 243.9\text{ cm}$

$y = + - 29.3\text{ cm}$

Use taped on targets on downstream side of detectors.



Rear detectors

Target

Front detectors

Rear detectors



10.3 degrees

target to HYCAL lead glass taken to be 690 cm  
Transverse dimension of HYCAL taken to be 118 cm

Vertical position of center of detectors at beam height.

We request  $+ - 1.5\text{ mm}$  accuracy.

Please set the coordinates for the four innermost detectors (front/back and left/right) as shown with targets at beam height. Angles of the detectors should be 10.3 degrees as indicated in the figure.