



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Whitlach

**DATE:** 14 Mar 2019

**FROM:** Kelly Tremblay

**Checked:** JAC

**# :** D1914

**DETAILS:**

data : step2b\halld\tagger\190114a

The Microscope (scintillators) near the Hall D tagger magnet were located on January 14<sup>th</sup>, 2019. The results are shown below.

The ideal and found coordinates are shown in meters relative to the CEBAF coordinate system. The beam following coordinates (bfs - millimeters) are also shown and are described as follows: Negative x is to the beam right from ideal beam looking downstream; positive y is the amount higher than beamline; negative z is amount upstream from ideal target. Positive yaw is the counter clockwise rotation about the Y axis; negative pitch is the clockwise rotation about the X axis (physics standard); positive roll is the clockwise rotation about the Z axis.

Microscope	Cebaf Coordinate Location [meters]			Beam Following [millimeters]			Angular Position [ degrees ]		
	X [m]	Y [m]	Z [m]	dX [mm]	dY [mm]	dZ [mm]	Yaw°	Pitch°	Roll°
Ideal	79.43323	104.70000	306.52356	-	-	-	-8.0500	0.0000	0.0000
As-found	79.43318	104.70753	306.52326	-0.09	0.18	-0.29	-8.0513	0.0020	0.0668