



Jefferson Lab Alignment Group

Data Transmittal

TO: H. Egiyen, T. Whitlatch

DATE: 12 Jul 2017

FROM: Jacob Walker

Checked:

: D1802

DATA: Inspection\HallD\Tagger Goniometer\170629A

DETAILS:

Below are the results of the recent goniometer stage alignment carried out in the survey lab. A rotation only coordinate system was established on the goniometer using the following; rX.pitch axis of rotation defines yaw and roll. rY.roll axis of rotation defines pitch. **Note:** rX pitch, rY roll, and rZ yaw axis of rotations listed below are as labeled on the drive motors. A negative pitch angle is clockwise looking from the left. A negative yaw angle is clockwise looking from above. A positive roll angle is clockwise looking from upstream. New home values are listed under the corresponding motor.

XY Stage Plane:

Pitch = -0.004° , Yaw = 0.021°

rX.pitch:

Yaw = 0.000° , Roll = 0.000°

Home = 0.48°

rZ.yaw:

Pitch = 0.006° , Roll = 0.108°

Home = -0.06°

rY.roll:

Pitch = 0.000° , Yaw = 0.029°