

Jefferson Lab Alignment Group Data Transmittal

| O: D. Gaskel, B. Sawatzky, M. Jones | | DATE: 06/07/2017 | |
|---|--------------------------|------------------|----------------------|
| ROM: Kelly Tremblay | Checked: (seh |) | #: C1792r |
| ETAILS: data: aalign\HMS\H053017 | | | |
| Below are the results from the survey of HMS spectrometer on May 30 th , 2017. The horizontal pointing value shows how much the central axis of the spectrometer misses the ideal target. This value is perpendicular to the spectrometer axis, not along the beam line. For the vertical pointing, a positive value indicates that the spectrometer is pointing above the target. | | | |
| This survey is different from typical surveys as observations were taken from both sides of the spectrometer. From this data, three sets of results were calculated: using the combined data and both left and right sides. The results show good agreement. | | | |
| ====================================== | | | |
| The central ray of the spectrometer is at 40.534 degrees The central ray is missing the defined target center by 3.45 [mm] Upstream and -0.91 mm vertically [positive value is up] | | | |
| 9 Par A posteriori value : 0.60 (mm) | | | |
| ====================================== | ==== H053017 | | |
| The central ray of the spectrometer is at 40.532 degre The central ray is missing the defined target center by and -1.09 mm vertically [positive value is up] | | | |
| 9 Par A posteriori value : 0.74 (mm) | | | |
| ====================================== | === H053017 | | |
| The central ray of the spectrometer is at 40.534 degre The central ray is missing the defined target center by and -0.84 mm vertically [positive value is up] | | | |
| 9 Par A posteriori value : 0.55 (mm) | | | |
| The sketches below illustrate the errors for the combination | on survey the right sid | le data an | d the left side data |
| | in ourvey, the right old | | |
| | | | |
| | | | |



