



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

DT_F868

Details:

Below are the results of the transformations performed in order to estimate the location of the mirrors in the High Reflective and Outcoupler cans. The values are based on the pre-alignment work carried out in November 2002, and the as found surveys carried out in March 2003. The results show the coordinates in millimeters in the FEL system, where 14600 is the ideal beam X, and 5000 is the ideal Y. Positive Z is downstream, positive X is to the beam left and positive Y is up. The distance between mirror pairs is also shown.

Point	Z	X	Y
HR_Mirror1	60463.79	14600.02	5000.11
HR_Mirror2	60463.87	14600.07	5000.14
HR_Mirror3	60464.15	14600.02	5000.10
HR_Mirror4	60464.18	14599.88	5000.11

OC_Mirror1	92511.04	14599.94	5000.56
OC_Mirror2	92511.04	14599.96	5000.60
OC_Mirror3	92510.99	14599.97	5000.64
OC_Mirror4	92511.12	14600.10	5000.60

	Dist.
HR-OC Mirror1	32047.25
HR-OC Mirror2	32047.16
HR-OC Mirror3	32046.83
HR-OC Mirror4	32046.94