Jefferson Lab Alignment Group

Data Transmittal

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FROM: Chris Curtis	**Checked:**	**#** L847

DETAILS:

Below are the results of the recent measurements performed in the injector in order to locate components along the beamline (Z). Distances along the beamline are given (in millimeters) with respect to the upstream face of Chopper 1. These are to the center of the component unless labeled otherwise. Also a Z value is given (in meters) for the straight beamline relative to the center of the accelerator defined as 80,000 meters. The accuracy of the survey is approximately +/- 5mm.

LABEL	Beamline Dist. (mm)	Z (m)
P1: Bm Left d/str. face of last large flange cathode	-6513	
MBH2I03	-6424	
MBH2I04	-6262	
MFH2I04	-6169	
MHB2I05	-5743	
P2: end of bellows, upstr. flange face attached to valve	-5539	
P1A: Bm Right	-6532	
MBH3I03	-6442	
MBH3I04	-6282	
MFH3I04	-6186	
MBH3I05	-5765	
P2A	-5536	
P3: d/str. side of flange on MDS magnet nipple (15dg)	-5164	79738.662
MDS1I01 CenterLine	-5113	79738.713
MBH1I02/IPM1I02	-4763	79739.063
MFB1I02	-4630	79739.196
MHB1I03	-4421	79739.405
MFB1I03	-4294	79739.532
MWF1I04	-3844	79739.982
MBH1I04/IPM1I04	-3440	79740.386
MFQ1I04	-3310	79740.516
MBH1I05	-3148	79740.678
VDP1I05	-2992	79740.834
P4: RIN1I05 (pre-buncher)		

LABEL	Beamline Dist. (mm)	Z (m)
P4: RIN1I05 (pre-buncher)	-2829	79740.997
IHA1I06	-2699	79741.127
MBH1I06/IPM1I06	-2564	79741.262
MBH0I01	-2135	79741.691
Tiefen0I01	-1986	79741.840
MBH0I01A	-1868	79741.958
MFA0I02	-1510	79742.316
MBH0I02	-1407	79742.419
Tiefen0I02	-1291	79742.535
IPM0I02	-1147	79742.679
P5: A1	-912	79742.914
MHB0I02A/IPM0I02A	-275	79743.551
A2	-141	79743.685
MFA0I03	-36	79743.790
P6: chopper 1 face upstr	0	79743.826
P7: chopper 2 face dnstr	1506	79745.332
MFA0I05	1541	79745.367
MBH0I05/IPM0I05	1719	79745.545
Buncher	2032	79745.858
MFA0I06	2298	79746.124
MBH0I06	2484	79746.310
MAD0I06A	2859	79746.685
Capture (upstr face)	2913	79746.739
A3	3758	79747.584
MFL0I07	3844	79747.670
MAD0I07	3908	79747.734
DiffPump	4144	79747.970
YaoCav	4330	79748.156
A4	4434	79748.260
MAD0I07A	4490	79748.316
P8: upstr face of cryounit	4827	79748.653