

FACET Beam Diagnostics and Experimental Devices (Feb 2024)

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Tape-measure locations are in blue and are accurate to within 2 cm. Measurements in black are provided by Metrology.

All measured distances are to the center of the device.

Device	Linac Z location (m)	Table co-ordinate (inches)	EPICS Channel Access Name	Profile Monitor Camera
Notch Collimator	1936.18		COLL:LI20:2069	
Momentum Jaw	1936.60		COLL:LI20:2085/2086	
sYAG	1970.88		YAGS:LI20:2432	CAMR:LI20:100
BLEN	1979.01		BLEN:LI20:3014	
USTHz	1983.14		OTRS:LI20:3070	
TCAV	1985.71		TCAV:LI20:2400	
Ion pump	1986.44		VPIO:LI20:3164	
CC and Pirani Guages	1986.44		VGCC/VGPR:LI20:3073	
Valve 3160	1986.54		VVPG:LI20:3160	
DPS US4 Stage	1986.86			
US4 Turbopump	1986.86		VGTM:LI20:3108:US4	
US4 CC Guage	1986.86		VGCC:LI20:3108:US4	
US4 VQM	1986.86			
Q2FF	1987.77		LI20:LGPS:3091	
BPM M3FF	1988.16			
DPS US3 Stage	1988.46			
US3 Turbopump	1988.46		VGTM:LI20:3130:US3	
Foreline valve FV-US3a	1988.46		VGPG:LI20:3130:US3A	
Foreline valve FV-US3b	1988.46		VGPG:LI20:3130:US3B	
US3 CC Guage	1988.46		VGCC:LI20:3130:US3	
Q1FF	1989.35		LI20:LGPS:3141	
BPM M4FF	1989.73			
DPS US2 Stage	1990.04			
US2 Turbopump	1990.04		VGTM:LI20:3151:US2	
Foreline valve FV-US2	1990.04		VGPG:LI20:3151:US2	
Foreline valve FV-US2a	1990.04		VGPG:LI20:3151:US2B	
DPS US2 Roughing pump	1990.04		VPRO:LI20:3151:US2	
US2 CC Guage	1990.04		VGCC:LI20:3151:US2	
Q0FF	1990.93		LI20:LGPS:3151	
BPM M5FF	1991.31		BPMS:LI20:3156	
DPS US1 Stage	1991.53			
US1 Turbopump	1991.53		VGTM:LI20:3171:US1	
Foreline valve FV-US1	1991.53		VGPG:LI20:3171:US1	
US1 Roughing pump	1991.53		VPRO:LI20:3171:US1	
US1 CC and Pirani Guages	1991.53		VGCC/VGPR:LI20:3171:US1	
Extension Table (first hole)	1991.56	-48.00		
USOTR	1991.82	-37.25	OTRS:LI20:3158	CAMR:LI20:102
Toroid	1991.92	-33.50	TORO:LI20:3163	
Beryllium Window (50-micron thick, 0.5" dia aperture) upstream	1991.98	-31.00		
HeNe Alignment Laser Injection Mirror	1992.10	-26.00		
PB Turbopump	1992.56		VPTM:LI20:3175	
Main optical table reference	1992.78	0.00		
Picnic Basket center	1992.82	2.00		
Lithium Oven Line				
IPOTR1P	1993.74	38.00	OTRS:LI20:3175	CAMR:LI20:104
Oven Gate Valve A (upstream)	1993.87	43.00	VVPG:LI20:3183	
Oven Gate Valve B (downstream)	1995.04	89.00	VVPG:LI20:3187	
Bypass Line				
IPOTR1	1993.83	41.63	OTRS:LI20:3180	CAMR:LI20:103
IP Wire Scanner #1	1993.91	45.00	WIRE:LI20:3179	
Oven Mover	1994.95	85.50	OVEN:LI20:3185	
IP Wire Scanner #2 (not installed)			WIRE:LI20:3206	
IPOTR2	1995.09	91.00	OTRS:LI20:3202	CAMR:LI20:105
8" Cube (Gold coated mirror with a 4 mm hole)	1995.67	114.00		
IP Vacuum Manifold				
UpToAirValve	1995.67	114.00		
Remote Controlled Angle Valve	1995.67	114.00	VVPG:LI20:3201	
Cold Cathode Gauge	1995.67	114.00	VGCC:LI20:M3201	
CM Gauge 1 (1000 Torr Full Scale)	1995.67	114.00	VGCM:LI20:M3201	
CM Gauge 2 (100 Torr Full Scale)	1995.67	114.00	VGCM:LI20:M3202	
CM Gauge 3 (10 Torr Full Scale)	1995.67	114.00	VGCM:LI20:M3203	
Turbo Pump	1995.67	114.00	VPTM:LI20:M3202	
Full Range Pirani/IMG Gauge	1995.67	114.00	VPTM:LI20:M3202	
Toroid	1995.99	125.00	TORO:LI20:3255	
Beryllium Window (50-micron thick, 0.5" dia aperture) in a valve; downstream	1996.10	129.00	VVPG:LI20:3208	
IP WireScanner #3	1996.15	133.00	WIRE:LI20:3229	
DSOTR	1996.28	138.00	OTRS:LI20:3206	CAMR:LI20:106

Q0D	1996.98		LI20:LGPS:3204	
BPM M0EX	1997.77		BPMS:LI20:3218	
DPS DS1 Stage	1996.71			
DS1 Turbopump	1996.71		VGTM:LI20:3259:DS1	
Foreline valve FV-DS1	1996.71		VGPG:LI20:3259:DS1	
DS1 Roughing pump	1996.71		VPRO:LI20:3259:DS1	
DS1 CC and Pirani Guages	1996.71		VGCC/VGPR:LI20:3259:DS1	
WDSOTR	1998.35		OTRS:LI20:3230	CAMR:LI20:107
Q1D	1999.21		LI20:LGPS:3261	
BPM M1EX	1999.99		BPMS:LI20:3265	
DPS DS2 Stage	2000.38			
DS2 Turbopump	2000.38		VGTM:LI20:3291:DS2	
Foreline valve FV-DS2	2000.38		VGPG:LI20:3291:DS2	
Foreline valve FV-DS2a	2000.38		VGPG:LI20:3291:DS2B	
DPS DS2 Roughing pump	2000.38		VPRO:LI20:3291:DS2	
DS2 CC Gauge	2000.38		VGCC:LI20:3291:DS2	
Q2D	2001.43		LI20:LGPS:3311	
BPM M2EX	2002.22		BPMS:LI20:3315	
Valve 3250	2002.37		VVPG:LI20:3250	
Cold Cathode Gauge	2002.49		VGCC:LI20:3249	
Pirani Gauge	2002.49		VGPR:LI20:3249	
Dipole Bend Magnet B5D36	2005.94		BNDS:LI20:3330	
PDC chamber upstream end	2008.01			
PDC chamber downstream end	2009.37			
EDC chamber upstream end	2010.50			
EDC_screen	2010.60		XPS:LI20:MC02/M7/MC03	CAMR:LI20:309
EDC_SRAD	2011.00		XPS:LI20:MC03:M2	CAMR:LI20:310
EDC chamber downstream end	2011.00			
Dump table (first hole)	2015.18			
DTOTR Screen	2015.26		XPS:LI20:MC01:M7/M8	
DTOTR1 CMOS	2015.26		XPS:LI20:MC01:M3/M4	CMOS:LI20:3505
DTOTR2 CCD	2015.26			CAMR:LI20:107
Butterfly Chamber (middle)	2015.31			
Exit window (5mm thick Al)	2015.54			
LFOV Screen	2015.63		XPS:LI20:MC01:M6	CAMR:LI20:301
Gamma 1 Screen	2015.63		XPS:LI20:MC01:M6	CAMR:LI20:302
LBG_LFOV	2016.00		XPS:LI20:MC10:M6	
Energy Spectrum from Cherenkov air gap (CHER)	2016.22		PROF:LI20:3500	CAMR:LI20:308
Gamma 2 Screen	2016.30		XPS:LI20:MC02:M3/M6	CAMR:LI20:303
Gamma 3 Screen (not installed)				
PRDMP	2017.53			CAMR:LI20:108
Dump	2019.21			

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