M: Chris Curtis   Checked:   # : A1279     ILS:   Data: 2AlHallAIPREX100127 2BiHallAIPREX100155 AaligniElectronNE0317     Below are the results from the surveys of the Q1 bore collimators, septum magnet and superharps for the PREX experiment. The Z, X, Y coordinates for the Q1 bore collimators and ideal septum location are given in millimeters in a beam following system based on the ideal target location. The deltas from the ideal location (in mm) are shown for the septum and also the superharps, BCM and Faraday cup. Positive Z is downstream, positive Y aw is counter- clockwise from above; and positive roll is counter-clockwise from downstream. Angles are in degrees.     Q1 COL L   2395.97   298.47   -0.29   -0.110     Q1 COL R   2396.83   -297.49   -0.24   0.149     Septum ideal   1753.80   0.00   0.00     DZ   DX   DY   Pitch   Yaw   Roll     PREX septum   -0.70   0.16   0.16   -0.069  0038   0.054     Superharps   DX   DY   Superharps   Supantarps   Supantarps	<b>ILS:</b> Below are the resuperharps for to ideal septum loc target location. the superharps, positive Y is up clockwise from	esults from t the PREX ex cation are gi The deltas f BCM and F Positive pit	xperiment. ven in milli rom the ide araday cuj ch is count	The Z, X, Y o meters in a b eal location (i o. Positive Z	ore collimate coordinates beam followi n mm) are s	Data: 2A\Ha 2B\Ha Aaligr ors, septum ma for the Q1 bord ng system bas	allA\PREX\100315a h\Electron\\E031710a agnet and e collimators and	
ZBIHallAIPREX\100315: Aalign\Electron\LE0317   Below are the results from the surveys of the Q1 bore collimators, septum magnet and superharps for the PREX experiment. The Z, X, Y coordinates for the Q1 bore collimators and ideal septum location are given in millimeters in a beam following system based on the ideal target location. The deltas from the ideal location (in mm) are shown for the septum and also the superharps, BCM and Faraday cup. Positive Z is downstream, positive X to the beam left, positive Y is up. Positive pitch is counter-clockwise from beam-right; positive yaw is counter- clockwise from above; and positive roll is counter-clockwise from downstream. Angles are in degrees.   Z   X   Y   Pitch   2395.97   298.47   -0.24   0.110   Q1 COL L   2395.97   298.47   -0.29   -0.110   Q1 COL L   2395.97   298.47   -0.24   0.14   PREX septum ideal 1753.80   0.00   DX DY   Pitch   Yaw   PREX septum   -0.70   0.16 <td col<="" th=""><th>Below are the re superharps for t ideal septum loc target location. the superharps, positive Y is up clockwise from</th><th>the PREX ex cation are gi The deltas f BCM and F Positive pit</th><th>xperiment. ven in milli rom the ide araday cuj ch is count</th><th>The Z, X, Y o meters in a b eal location (i o. Positive Z</th><th>coordinates beam followi n mm) are s</th><th>2B\Ha Aaligr ors, septum ma for the Q1 bord ng system bas</th><th>allA\PREX\100315a h\Electron\\E031710a agnet and e collimators and</th></td>	<th>Below are the re superharps for t ideal septum loc target location. the superharps, positive Y is up clockwise from</th> <th>the PREX ex cation are gi The deltas f BCM and F Positive pit</th> <th>xperiment. ven in milli rom the ide araday cuj ch is count</th> <th>The Z, X, Y o meters in a b eal location (i o. Positive Z</th> <th>coordinates beam followi n mm) are s</th> <th>2B\Ha Aaligr ors, septum ma for the Q1 bord ng system bas</th> <th>allA\PREX\100315a h\Electron\\E031710a agnet and e collimators and</th>	Below are the re superharps for t ideal septum loc target location. the superharps, positive Y is up clockwise from	the PREX ex cation are gi The deltas f BCM and F Positive pit	xperiment. ven in milli rom the ide araday cuj ch is count	The Z, X, Y o meters in a b eal location (i o. Positive Z	coordinates beam followi n mm) are s	2B\Ha Aaligr ors, septum ma for the Q1 bord ng system bas	allA\PREX\100315a h\Electron\\E031710a agnet and e collimators and
superharps for the PREX experiment. The Z, X, Y coordinates for the Q1 bore collimators and ideal septum location are given in millimeters in a beam following system based on the ideal target location. The deltas from the ideal location (in mm) are shown for the septum and also the superharps, BCM and Faraday cup. Positive Z is downstream, positive X to the beam left, positive Y is up. Positive pitch is counter-clockwise from beam-right; positive yaw is counter-clockwise from above; and positive roll is counter-clockwise from downstream. Angles are in degrees.       Z   X   Y   Pitch     Q1 COL L   2395.97   298.47   -0.29   -0.110     Q1 COL R   2396.83   -297.49   -0.24   0.149     Septum ideal   1753.80   0.00   0.00     DZ   DX   DY   Pitch   Yaw   Roll     PREX septum   -0.70   0.16   0.16   -0.069  0038   0.054     Superharps   SH1H01A   0.16   0.03  0038   0.054     Superharps   SH1H01A   0.16   0.03  0038   0.054     SH1H01A   0.16   0.03  0038   0.054     Sh1H02B   -0.15   -0.05  015   -0.01     SH1H02C   -0.15   -0.01   -0.15   -0.01	superharps for t ideal septum loc target location. the superharps, positive Y is up clockwise from	the PREX ex cation are gi The deltas f BCM and F Positive pit	xperiment. ven in milli rom the ide araday cuj ch is count	The Z, X, Y o meters in a b eal location (i o. Positive Z	coordinates beam followi n mm) are s	for the Q1 bor ng system bas	e collimators and	
Q1 COL L   2395.97   298.47   -0.29   -0.110     Q1 COL R   2396.83   -297.49   -0.24   0.149     Septum ideal   1753.80   0.00   0.00   0.00     DZ   DX   DY   Pitch   Yaw   Roll     PREX septum   -0.70   0.16   0.16   -0.069  0038   0.054     Superharps   O16   0.16   0.01   -0.01  0038   0.054     Superharps   O16   0.16   0.03  0038   0.054     Superharps   O.16   0.03  015  005  015     SH1H01A   O.16   0.01  020   -0.05  015     SH1H02A   O.15   -0.05  015   -0.01     Cavity BPM   O15   -0.01  015  015	<b>.</b>	,	positive rol		from beam-	am, positive X right; positive	eptum and also for to the beam left, and yaw is counter-	
DZ     DX     DY     Pitch     Yaw     Roll       PREX septum     -0.70     0.16     0.16     -0.069    0038     0.054       PREX septum     -0.70     0.16     0.16     -0.069    0038     0.054       Superharps     DY     Superharps     Outbound     Roll     Outbound     Outb		2395.97	298.47	-0.29	-0.1	110		
PREX septum   -0.70   0.16   0.16   -0.069  0038   0.054     DX   DY     Superharps   0.16   0.03     SH1H01A   0.16   0.03     SH1H01B   0.19   0.01     SH1H01C   0.28   0.07     SH1H02A   -0.20   -0.05     SH1H02B   -0.15   -0.01     Cavity BPM   Output   Output	Septum ideal	1753.80	0.00	0.00				
DX     DY       Superharps     0.16     0.03       SH1H01A     0.19     0.01       SH1H01B     0.19     0.01       SH1H01C     0.28     0.07       SH1H02A     -0.20     -0.05       SH1H02B     -0.15     -0.05       SH1H02C     -0.15     -0.01       Cavity BPM     -0.15     -0.01		DZ	DX	DY	Pitch	Yaw	Roll	
Superharps       SH1H01A     0.16     0.03       SH1H01B     0.19     0.01       SH1H01C     0.28     0.07       SH1H02A     -0.20     -0.05       SH1H02B     -0.15     -0.05       SH1H02C     -0.15     -0.01       Cavity BPM	PREX septum	-0.70	0.16	0.16	-0.069	0038	0.054	
SH1H01A   0.16   0.03     SH1H01B   0.19   0.01     SH1H01C   0.28   0.07     SH1H02A   -0.20   -0.05     SH1H02B   -0.15   -0.05     SH1H02C   -0.15   -0.01     Cavity BPM   -0.15   -0.01	0		DX	DY				
	SH1H01A SH1H01B SH1H01C SH1H02A SH1H02B SH1H02C		0.19 0.28 -0.20 -0.15	0.01 0.07 -0.05 -0.05				
BCM1H1C     0.37     -0.23       BCM1H2A     -0.21     -0.33       BCM1H2D     0.17     -0.35	BCM1H1B BCM1H1C BCM1H2A		0.37 -0.21	-0.23 -0.33				

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