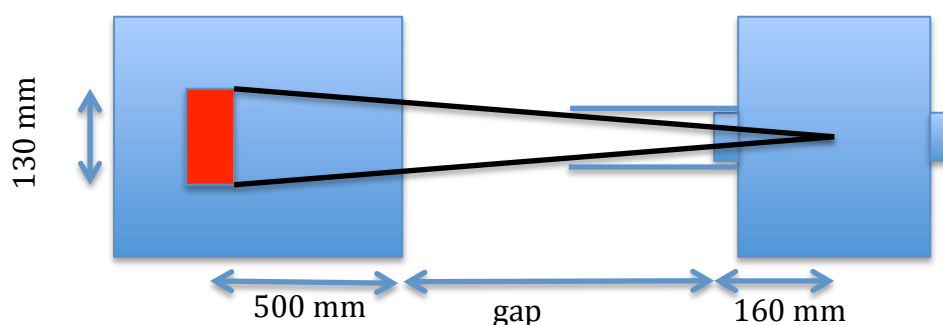


Magnet Sample Environments

	T(K)	Horz B(T)	Bore (mm)	2th range B//n deg	2th range B perp n deg	Dil insert
SANS Cryo 55+ BHAM Electromagnet	1.6-320	0.22	49	+/-6.5	+/-6.5	yes
Narrow Tail + GM Electromagnet	1.6-320	1.2 perp 0.8 //	14	+/-4.5	+/-15	no
ORTF	1.6-300	2.5	18	+/-15	+/-15	yes
Black Charlie	1.6-300	7	15	+/-8.5	+/-8.5	no
Blue Charlie	1.6-300	8	21 (16 dil)	+/-11	+/-8	Yes
CCR+Electromagnet	10-500	0.75	40	+/-30	+/-30	no

Blue Charlie and He³ Cell



He³ cell dimensions: 10 cm thick 130 mm diameter

Q_{\max} is limited by the cell dimensions and gap

Essential to use the large magic box 690 mm long. The short one will not work. Perpendicular fields must be oriented such that the return field is in the same direction as the magic box field.

Guide field of 20G with steel plates 20cm long was present for these measurements to prevent a sharp zero crossing by the window of the shield at low fields < 0.1T.

Applied Field (T)	GAP (mm)	2th _{max} (deg.)	Q_{\max} (\AA^{-1})	T0 B//n's (hours)	T0 B perp n's (hours)
0.00	500	3.1	0.075	316	316
0.50 (with shield)	500	3.1	0.075	230	190
0.60 (with shield)	500	3.1	0.075	116	220
0.75 (with shield)	500	3.1	0.075	56	250
0.50 (with shield)	400	3.4	0.083	115	230
0.1 (no shield)	500	4.0	0.075	13	156