

### U-70 Magnets' Specifications:

# Magnet Parameter	Dipoles	Quadrupoles	
	CII - 12A1	20K100B-1300	SQ-1 (prelim.)
1. Magnet Name	M <sub>1</sub> , M <sub>2</sub> , M <sub>3</sub>	Q1, Q2, Q3, Q4	SQ1
2. Maximum Field	1.8 T	14.8 T/m	60 T/m
3. Maximum Current	1700 A	1600 A	
4. Effective Length	3.20 m	1.06 m	0.6 m
5. Length of Iron	3.00 m	1.00 m	
6. Total Length	4.50 m	1.30 m	
7. Aperture width	0.50 m	0.20 m	0.10 m
8. Total Width	2.20 m	0.64 m	
9. Aperture gap	0.20 m	0.20 m	0.16 m
10. Total Height	1.69 m	1.32 m	
11. Total Weight	65 t	~ 4 t	
12. Field Uniformity	10 <sup>-2</sup> to ± 12 cm	10 <sup>-2</sup> to ± 8 cm	

Magnet	Length (m)	Diameter or Gap (cm)	B' <sub>max</sub> (kG/cm)	B <sub>max</sub> (kG)
Q <sub>1</sub> , Q <sub>2</sub> , Q <sub>3</sub> , Q <sub>4</sub>	1.00	20	1.48	
Q <sub>1</sub> <sup>super</sup>	0.60	10 x 16	6.0	
M <sub>1</sub> , M <sub>2</sub> , M <sub>3</sub>	3.00	20	—	18.0

Table 3. Recoil spectrometer magnet list.