Magnet-List

Different spectrometer magnets for experiments in PH-Department

Item #	Name	Gap dimensions [mm] height	width	length	Field [T]	Current – Power [A]	[kW]	Weight [tons]	Assignment - Location
	PT (x?) (polarised target)	50	Ø = 50		2.5 (?)	no documentation			stored in blg 610
	PT 6 (MNP 12) (polarised target)	63	Ø = 80		2.5	598	72	???	stored in blg 610
	PT 7 (polarised target)	max 110	Ø = 300 max (high precision field)		2.5	950	160	25	NA 60 – hall 918
	TC 8	120 mod. 80	120 90	290 290	1.6 2.0	450	60	2.1	stored in blg 610
	MNP 17	300	1000	300	1	700	100	20	for tests - hall 168
	MNP 19-A	75	150	2000	1.35	750	140	3.7	magnet storage of PS hall 157
	MNP 21/1 (AEG) (mod. for COMPASS)	500	1530 (diff. gap heights foreseen)	500	1.65 (???)	2500	1250	120 (???)	COMPASS – hall 886
	MNP 21/2 (AEG)	like original dimensions							on loan since 1989 to GSI Darmstadt
	MNP 21/3 (BBC)	500	1530	500	1.65	2500	1250	120	DIRAC – hall 157
	MNP 22/A	500	1000	1000	1.4	2500	750	60	CMS for tests– hall 887
	MNP 22/B	500	1000	1000	1.4	2500	750	60	t7 beam – hall 157

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	MNP 24	200	2000	500 (gap height extensible to 600 mm)	1.5	1000	200	45	Hall sensor calibration - hall 168
	MNP 26 (g-2 bottle magnet)	140	520	6000	1.85	1720	590	100	stored in hall 180 ???
	MNP 33	600	2450	800 modified, see next row MNP 33/mod	0.8	1250	720	75	
	MNP 33/mod (2 additional coils)	2400	2450	800 (increased gap height)	0.36	old coils: 1250 new coils: 2500	720 900	125	NA 48/2 – hall 918
	MNP 34	10, 20, 30	Ø = 140		2.5	150	5.5	0.4	stored in blg 610
	MEP 45	1000	2000	4000	1.82	2000	2700	400	COMPASS – hall 888
	ACM (MEP 46) hex. toroid. air core magnet	inner / outer Ø = 300 / 3000;		3900	1.9 (B/r)	10000 (pulsed) (averaged)	2000	150	NA 60 – hall 918
	MEP 48	400	Ø = 1000		1.47	2000	400	72	stored in hall 180
	UA1 – NOMAD Magnet (MEP 50)	3500	3600	7000	0.7	10000	5550	1420	Coils in blg 610 Yoke at Lab 2
	MEP 51 (crocodile)	150	2000	270	1.04	800	130	20	stored in hall 180
	MEP 52 (modif. MNP 101)	1230	815	2000		900	1200	100	stored in hall 180

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	PPE 54 hexagonal toroidal aire-core magnet	hexagon side 1.5 m, depth 0.75 m 5.6% rad. length	1180 G	3200 A pulsed pulse length 55 ms	2.3	stored in hall 168
	MEP W 75 (Daresbury)	800 1200 1200	1.6	8000 2100	140	Stored in hall 180
	MEP 101	see under MEP 52				
Item #	**Name**	**Gap dimensions [mm] height width length**	**Field [T]**	**Current – Power [A] [kW]**	**Weight [tons]**	**Assignment - Location**
	JUNON (LCM-1) Large Compensator Mag.	400 800 1500	1.5	2160 350	70	stored in hall 180
	JUNON (LCM-2) Large Compensator Mag.	400 800 1500	1.5	2160 350	70	ICARUS in hall 182
	Orsay Magnet (last user HARP)	650 890 1370 (also possible: 1370 890)	1.4	2640 740		coils stored in blg 610 yoke ????????
	TPC-90/mod (last user: HARP)	solenoid Ø = 900; 2250	0.7	900 2 x 400	25	in T9, hall 157
	Goliath (last user NA57)	1050 Ø = 2000	1.5	up-coil:3600 550 lo-coil: 5350 950	???	H4 beam; hall 887
	OAFM (Open Axial Field Mag.)	1500 Ø = 1180 (last user: OBELIX)	0.55	1090 750	320	Coils in blg 610 ?????? Yoke outside blg 610 ???
	UA6 magnet					stored in blg 610
	Cristal-Barrel-Magnet (Faessler-Magnet)	solenoid Ø = 1500; 1270	1.5	5000 2450	60	owner: Cristal-Barrel-Lear-Collaboration
	short sextupole SNP02/2	Ø = 200 180		150 4.5	????	stored in hall 168
	short sextupole SNP03/1	Ø = 150 300		150 4		stored in blg 610

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	CHALUT belongs to DESY	was by Sacly delivered to CERN				
		Superconducting Magnets **next page**				
Item #	**Name**	**Gap dimensions [mm]** **height width length**	**Field [T]**	**Current – Power** **[A] [kW]**	**Weight [tons]**	**Assignment - Location**
		Superconducting Magnets				
	Vertex magnet 1 (Alsthom)	1000 Ø = 2000	1.5	5000 L = 1.68 Hy	380	NA49 – hall 887 H2 beam
	Vertex magnet 2 (Ansaldo)	like above	1.5	like above		NA49 – hall 887 H2 beam
	Morpurgo H8-beam (user ATLAS)	Ø = 1600 over-all length L = 3500	1.9	6000 P = 20 MJ	230	ATLAS – hall 887 H8 beam
	M1 (Morpurgo)	no documentation (see CMS)				CMS – hall 887 H2 beam
	beam magnets (G. Kesseler)	to be destroyed ???				stored in blg 610