





06/11/2013

CAS: Septa & Kickers. M.J. Barnes.

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Septum Location		Beam momentum (GeV/c)		Gap Height (mm)		Max. Current (kA)		Magnetic Flux Density (T)		Deflection (mrad)	
LEIR/AD/CTF (13 systems)		Various		25 to 55		1 DC to 40 pulsed		0.5 to	1.6	up to 130	
PS Booster (6 systems)		1.4		25 to 50		28 pulsed		0.1 to (	0.6	up to 80	
PS complex (8 systems)		26		20 to 40		2.5 DC to 33 pulsed		0.2 to 1.2		up to 55	
SPS Ext.		450		20		24		1.5		2.25	
Kicker Location	mo	Beam mentum GeV/c)	# Magne	ets	Gap Height [V <sub>ap</sub> ] (mm)	Current (kA)	Im	ipedance (Ω)	Rise Time (ns)		Total eflection (mrad)
CTF3		0.2	4		40	0.056		50	~4		1.2
PS Inj.	2.14		4		53	1.52	26.3		42		4.2
SPS Inj.		13/26	16		54 to 61	1.47/1.96	16.67/12.5		115/20	0	3.92
SPS Ext. (MKE4)	450		5		32 to 35	2.56	10		1100		0.48
LHC Inj.		450 4		54		5.12	5		900		0.82
HC Abort 450 to 7000		15		73	1.3 to 18.5 1.5		5 (not T-line) 270		0.275		







































































































