LER-VLER IP DIPOLE PARAMETERS

A comparison between **PT** and **MEP48** dipoles presently available at CERN

Parameter		PT		MEP48	
		Nominal	Modified	Nominal	Modified
Gap height	mm	50	100	400	2000
Vert. Angular Ap.	deg	± 16	± 45	± 21	± 55
Dipolar Field B_o	T	2.5	$\sim 1.25^{*)}$	1.47	$\sim 0.29^{*)}$
Field strength $\int B\,ds$	Tm	0.72	$\sim 0.35^{*)}$	1.50	$\sim 0.30^{*)}$
Beam Deflection $^{**)}$	mrad (deg)	432 (24.8)	$\sim$ 210 (12.0)	900 (51.6)	$\sim$ 180 (10.3)
DC Current	A	450		2000	
DC Power	kW	40		400	
Weight	t	~ 4	~ 5.5	~ 72	~ 82
Height	m	~ 1	~ 1.5	3.0	~ 4.6

$^{*)}$ Scaled from nominal gap values
$^{**)}$ @ 500 MeV

MP / August 18, 2000
public/tex/PEPIII/IR_Dipole.ps