

## Some aspects of IHEP-TestBeam

2006-11-16

The Current parameters of IHEP Test Beam is follow table 1.

Parameter	Primary electron beam (E1 and E2 Beam Line)	Secondary particle on E3 beam line
Charge/Bunch	1.0 x 10 <sup>6-10</sup>	Single and multi-particle
Energy	1.3 GeV	0.4-1.2GeV
Energy Spread	< 1%	1%
Kind of Particle	e <sup>±</sup>	e <sup>±</sup> , π <sup>±</sup> , p
Bunch width (ns)	1.2	
Bunch rate (Hz)	25	1.5-2 (single particle); 7-8 ( multi-particle)

There is a plan of the TEST BEAM RUNNING from 2007 to 2008 as table 2

ID	Task Name	Start	Finish	Duration	2007												2008											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	Quartz scintillator fiber target test	2007-1-10	2007-1-15	.8w	■																							
2	Calibration of Faraday Cup	2007-1-10	2007-1-25	2.4w	■																							
3	Background measurement for EMC	2007-1-16	2007-1-31	2.4w	■																							
4	Yangbajing Air-shower Core detector test	2007-2-1	2007-3-21	7w	■																							
5	GEM detector test (IHEP-EPC)	2007-3-22	2007-3-26	.6w	■																							
6	GEM detector test ( Tsinghua University )	2007-3-27	2007-3-30	.8w	■																							
7	MRPC(for USTC)	2007-4-2	2007-4-16	2.2w	■																							
8	Test Beam Update	2007-4-16	2007-10-17	26.6w	■																							
9	Test Beam running (Parasitical model running) for open duration	2007-10-18	2008-11-19	57w	■																							
10																												

The parameters after IHEP-TestBeam update as table 3

Parameter	Primary electron beam (E1 and E2 Beam Line)	Secondary particle on E3 beam line
Charge/Bunch	1.0 x 10 <sup>6-10</sup>	Single and multi-particle
Energy	1.3 GeV	0.4-1.2GeV
Energy Spread	< 1%	0.2%
Kind of Particle	e <sup>±</sup>	e <sup>±</sup> , π <sup>±</sup> , p
Bunch width (ns)	1.2	
Bunch rate (Hz)	50	4-6 (single particle);
Max		20 ( multi-particle)