

Special Meeting on Ion Effects

2 June 2007

14:00-ca.17:00

Ron	Boundary conditions (Beijing report)
Adrian	TPC occupancies
Astrid (by Martin)	Space charge
Akira	GEM gating
Vincent	Gas possibilities
Dean	Measurement of distortion
Anybody	Anything
Discussions	How to proceed our works against ions

(1) Charge density of ions (also electrons) accumulated in the TPC volume:

Primary ions

physics events,

Mini jets,

Machine backgrounds

(including the neutrons from the beam dumps)

Feedback ions

Ion feedback rate

Gain

Effect of gating

Gas choice

(2) Expected distortion (or some measures):

(3) How much can we correct the distortion?

(4) How much distortion can we tolerate?

(5)