## $0.1 \quad MD2 - 55GeV, 2007-08-27/28$

#### 0.1.1 General

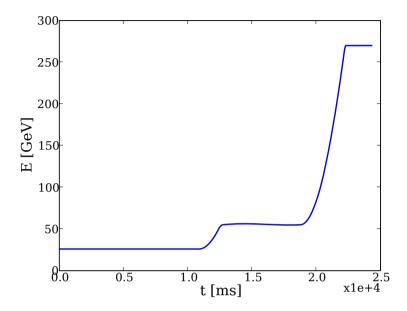
Variable Value # bunches p per bunch 5e10 Chromaticity (x & y) 0.05 Bunch length (4 sigma) 4 ns  $4~\mathrm{MV}$  at  $55~\mathrm{GeV}$  $V_{RF,qap}$  $\epsilon_x$  at 55 GeV/c (SC 51317)  $1.7~\mu m$  $\epsilon_y$  at 55 GeV/c (SC 51317)  $1.9~\mu m$  $Q_x, Q_y$  $\approx 0.3070, \approx 0.2783$ 

• data saved to

/user/slops/data/2007/MD\_DATA/SPS\_BBLR\_27\_Aug07

• supercycle name:

LHCMD25.92-55-270\_PDOT\_V2



• The MD had 2 serious drawbacks: 1) The BBLR were not initialized for this supercycle in the controll software, which caused a delay of more than 1 hour. 2) Strange beam losses every now and then. Possible due to timing issues between energy ramping and BBLR ramping.

#### 0.1.2 Current scan at 6.6 $\sigma$

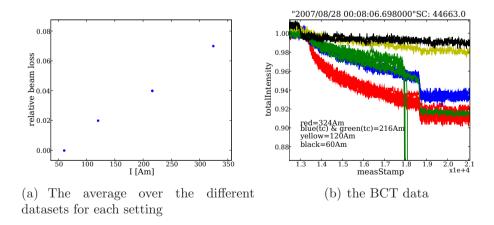


Figure 1: Currentscan at  $d = 6.6\sigma$ 

#### 0.1.3 Y-Chromaticity scan at 240Am

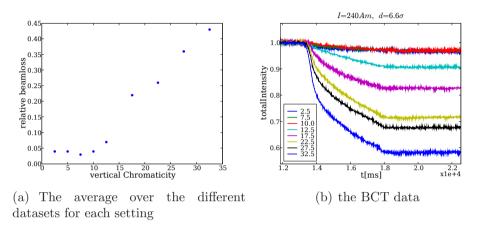


Figure 2: Y-chromaticity scan at  $d=6.6\sigma$  at 240Am

# **0.1.4** Currentscan with $Q'_y = 33$

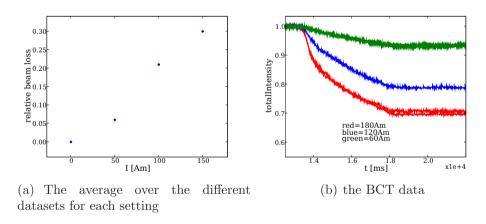


Figure 3: Currents can with  $Q_y'=33'$  at  $d=6.6\sigma$ 

### 0.1.5 Comparissons

