

New PF-BT Line

'04.12.17 M.Kikuchi, N.Iida

New PF-BT Line の建設の現状

■PF-BT Line設計:12/10から進んだこと

1.Geometry

●取り出しラインの限界線の確認

-5-8冷却水縦配管

-BM_61_3 chamberの光ポート

-配管用ピット

2.Optics

3.Pulse bendの設計

2.aperture の確認 S-band 仕様 or C-band 仕様?

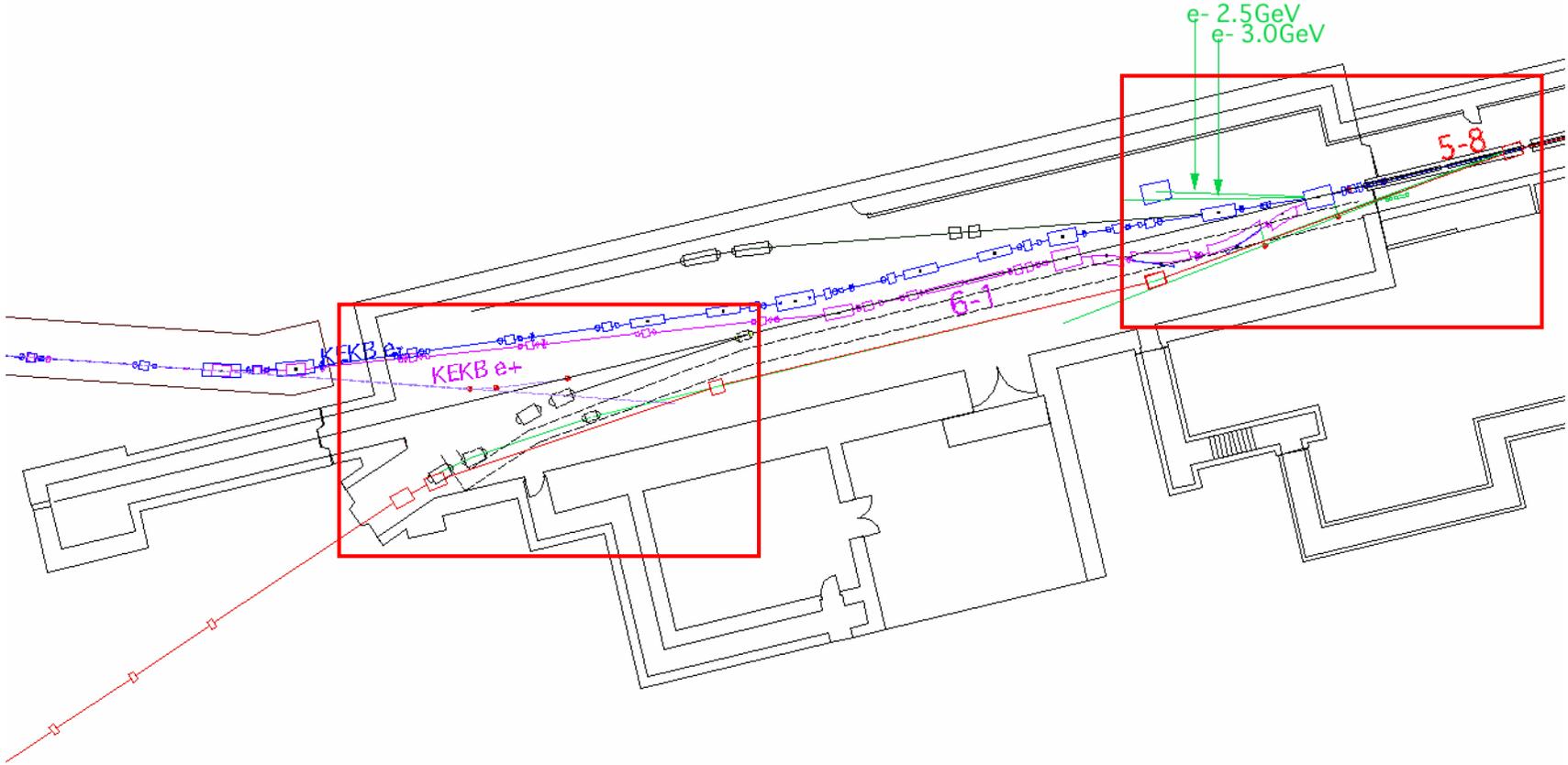
- S-band 仕様 (21mm x 83mm)

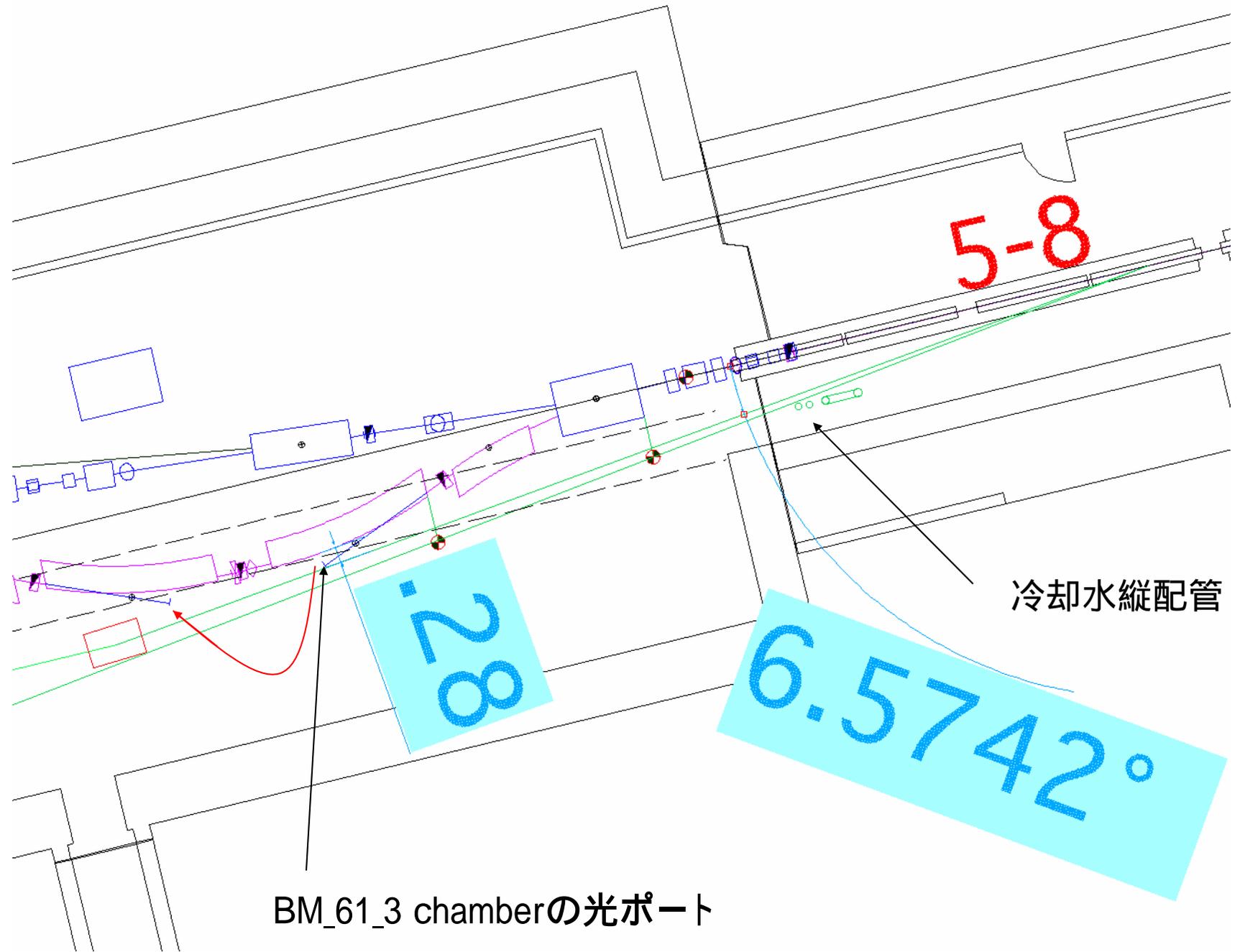
-磁場の強さ:1.147Tm, L=1m

3.Switchの調査・選定

-現在検討中(三増氏)

Injector Upgrade Plan





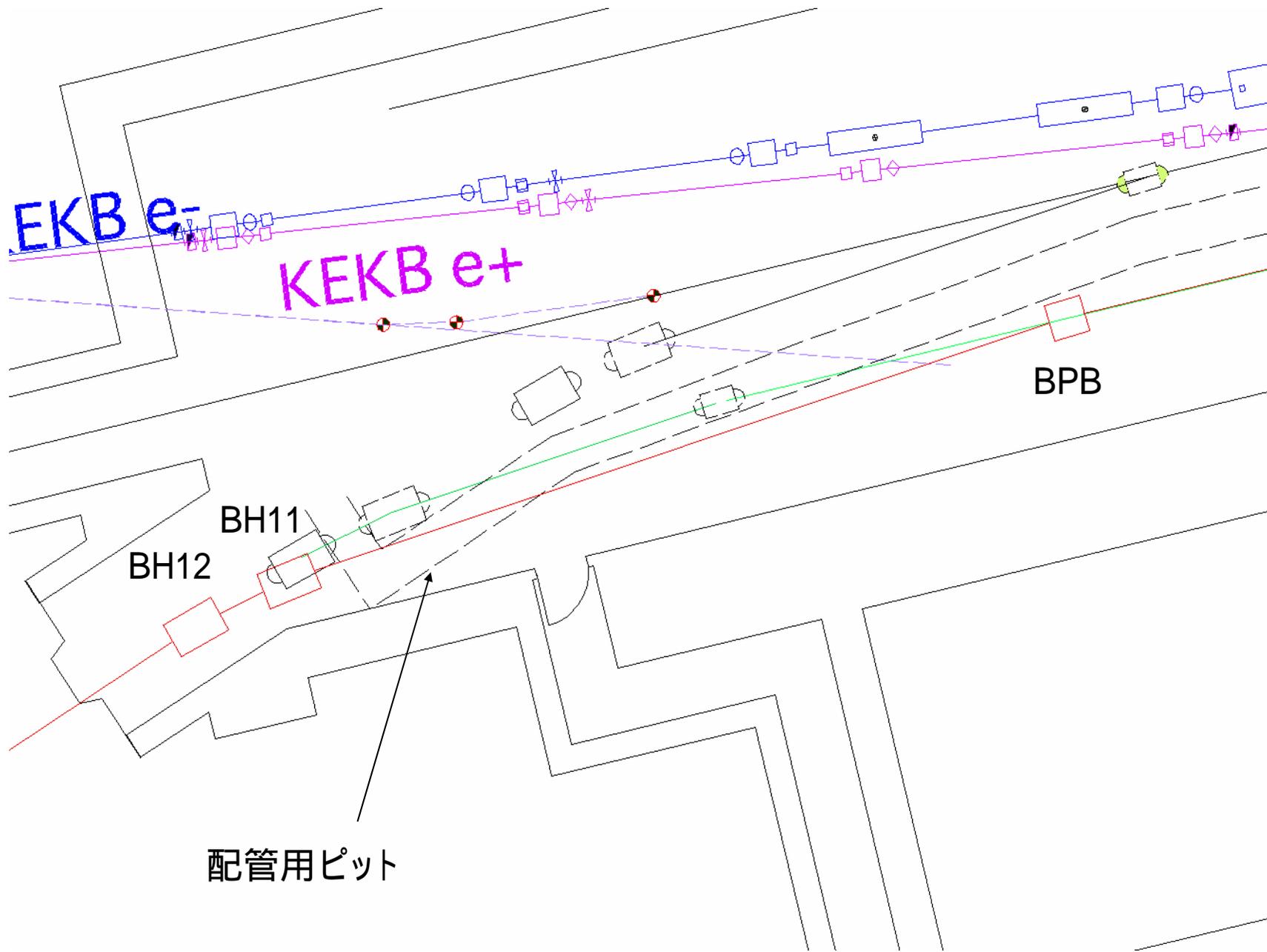
5-8

冷却水縦配管

28

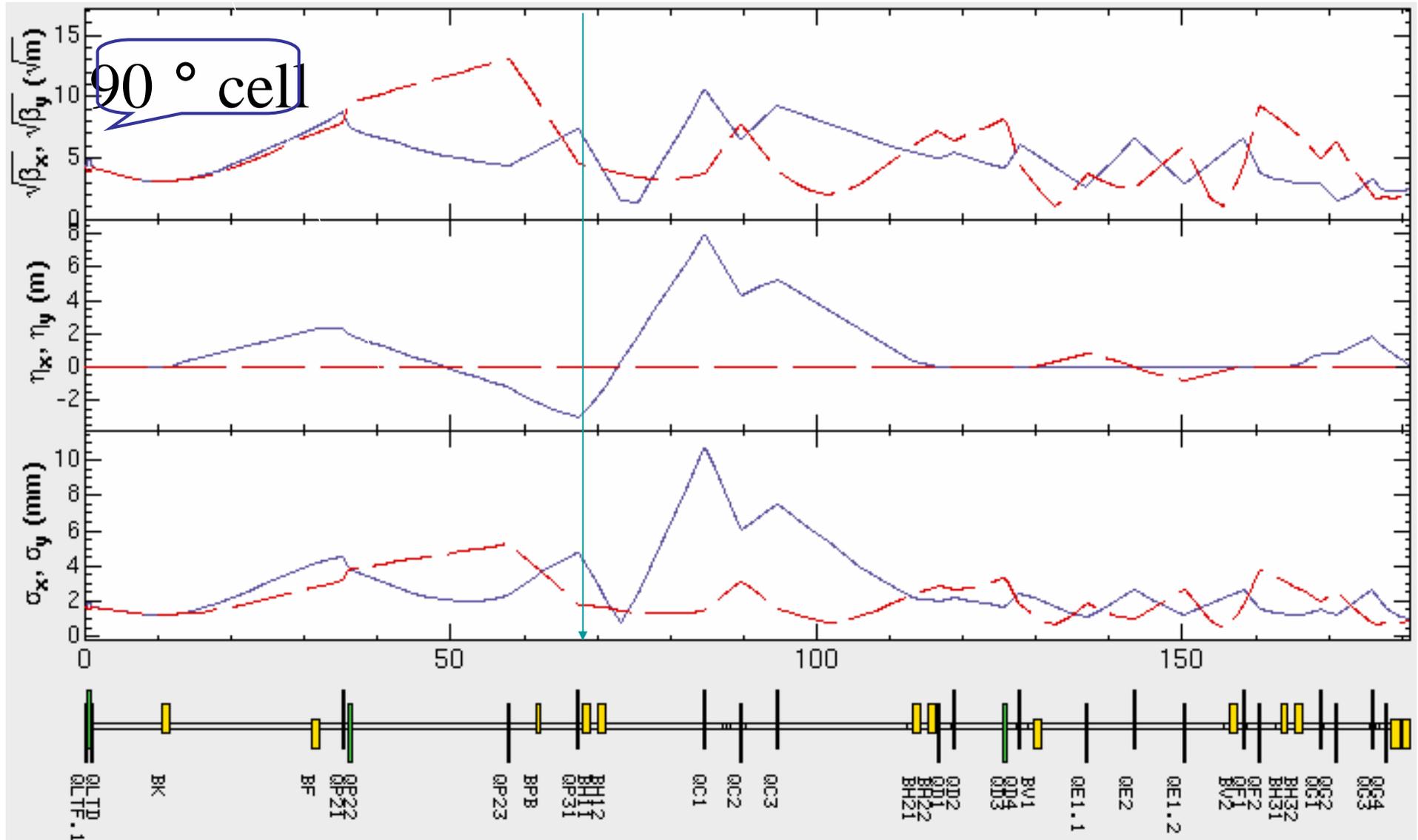
6.5742°

BM_61_3 chamberの光ポート

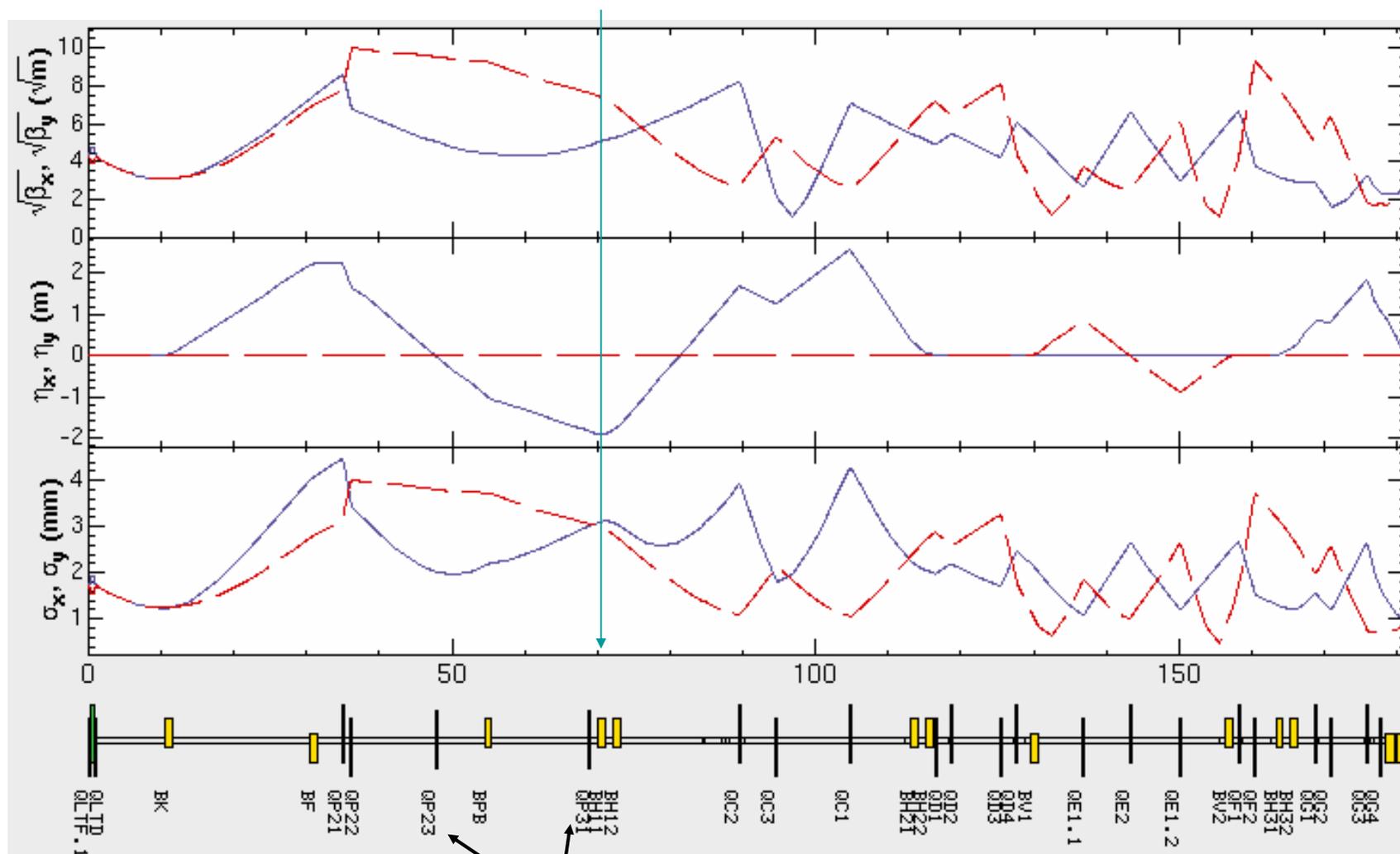


仮定: $dP/P=0.125\%(1)$, $\sigma = 1.6e-7m$

($x = -3.0:3.75mm$, $y = 60:3.1mm$)



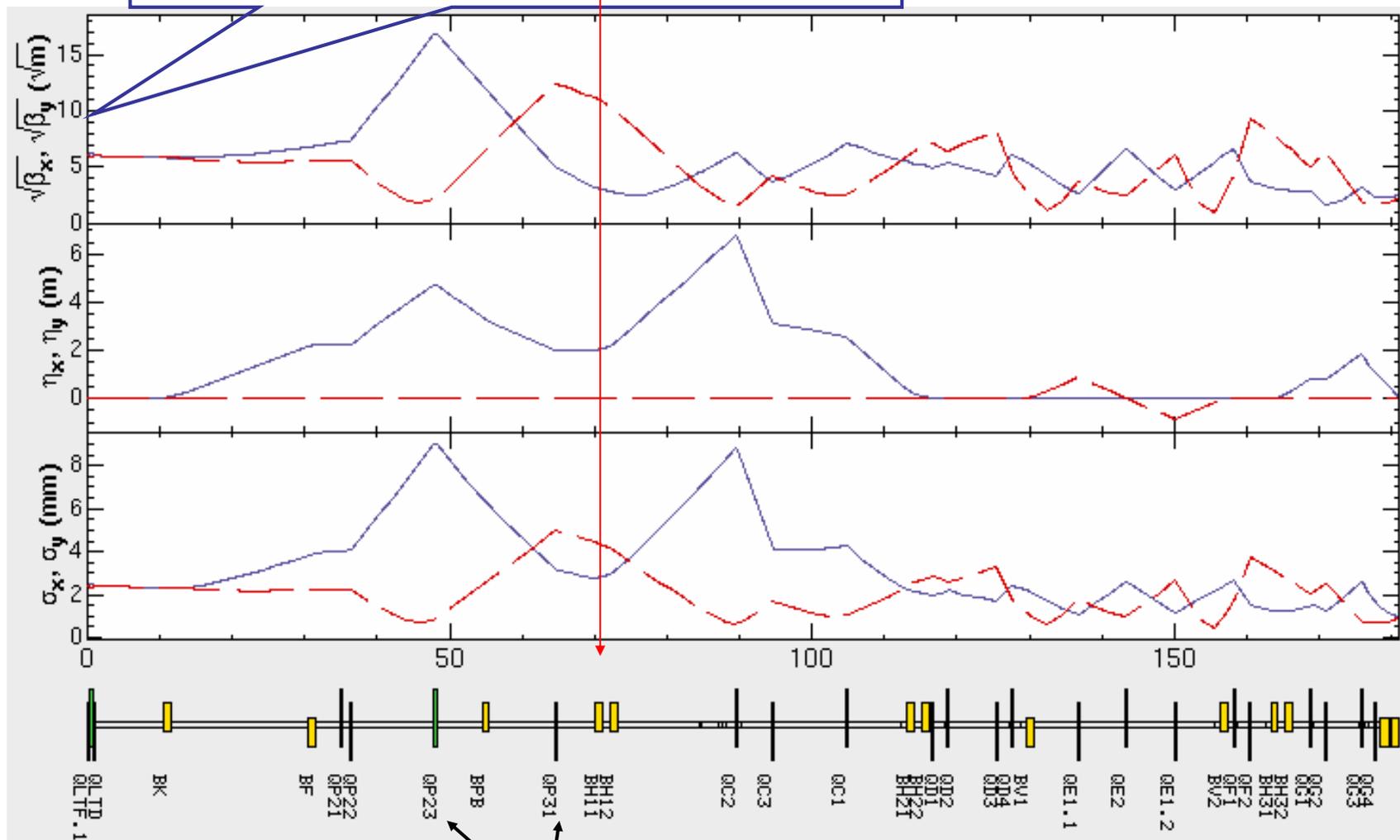
($=-1.93:2.4\text{mm}$, $=23.3:1.9\text{mm}$)



Off

($\sigma_x = 2.0:2.5\text{mm}$, $\sigma_y = 10.5:1.3\text{mm}$)

31.25 ° cell(100 ° @8GeV)



On