

Qualification Lossmaps at 4TeV ADJUST Totem & Alpha IN

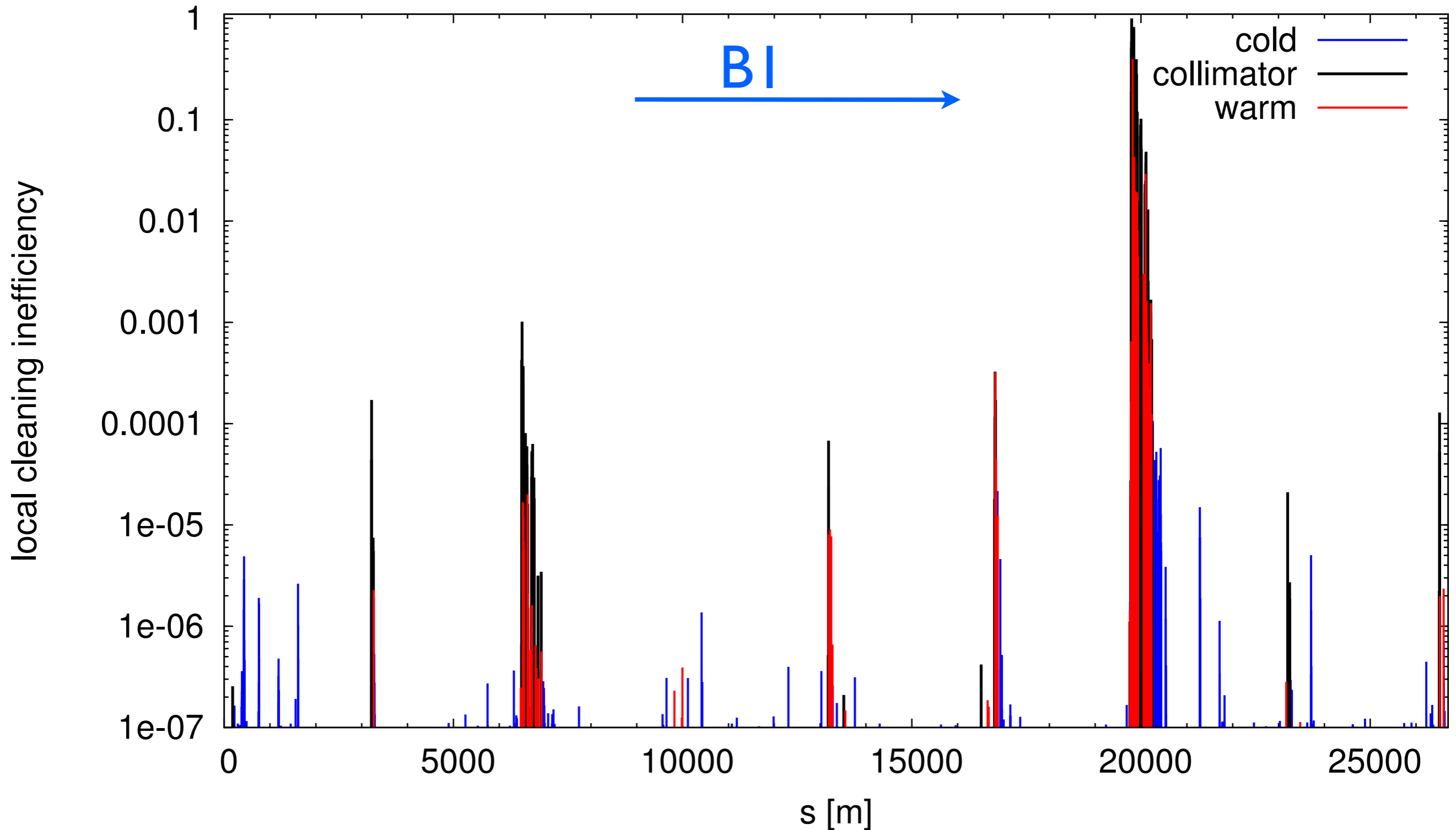
S.Redaelli, B.Salvachua, G.Valentino
for the Collimation Team

Qualification Lossmaps after TS2

Lossmap	2012-07-01
BI-V	05:37:08
BI-H	05:41:31
B2-V	05:47:59
B2-H	05:49:50
BI+B2 NEG off-momentum (+500Hz)	05:53:30

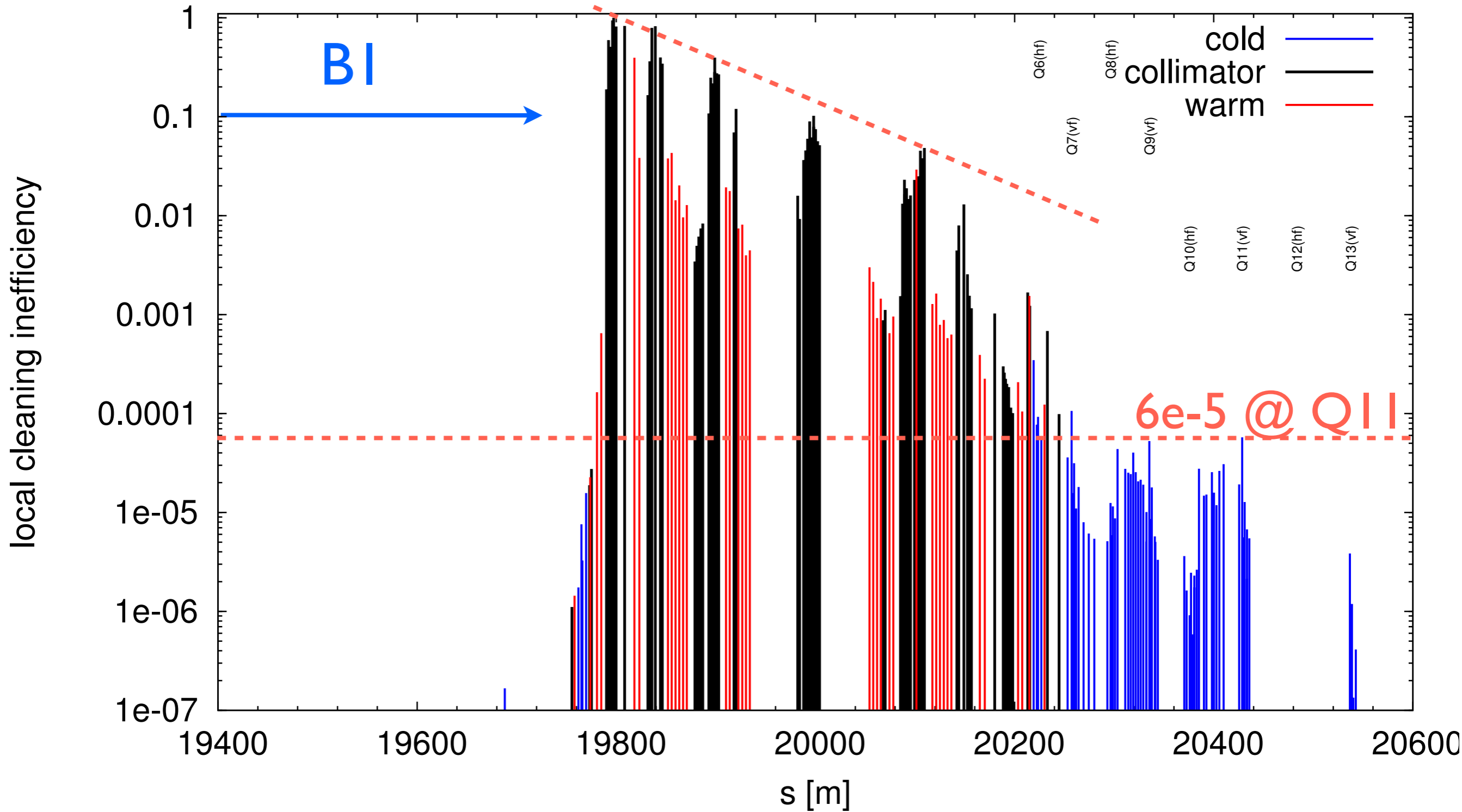
BI-V 2012.07.01 05:37:08

betatron losses B1 4000GeV ver norm F (2012.07.01, 05:37:08)



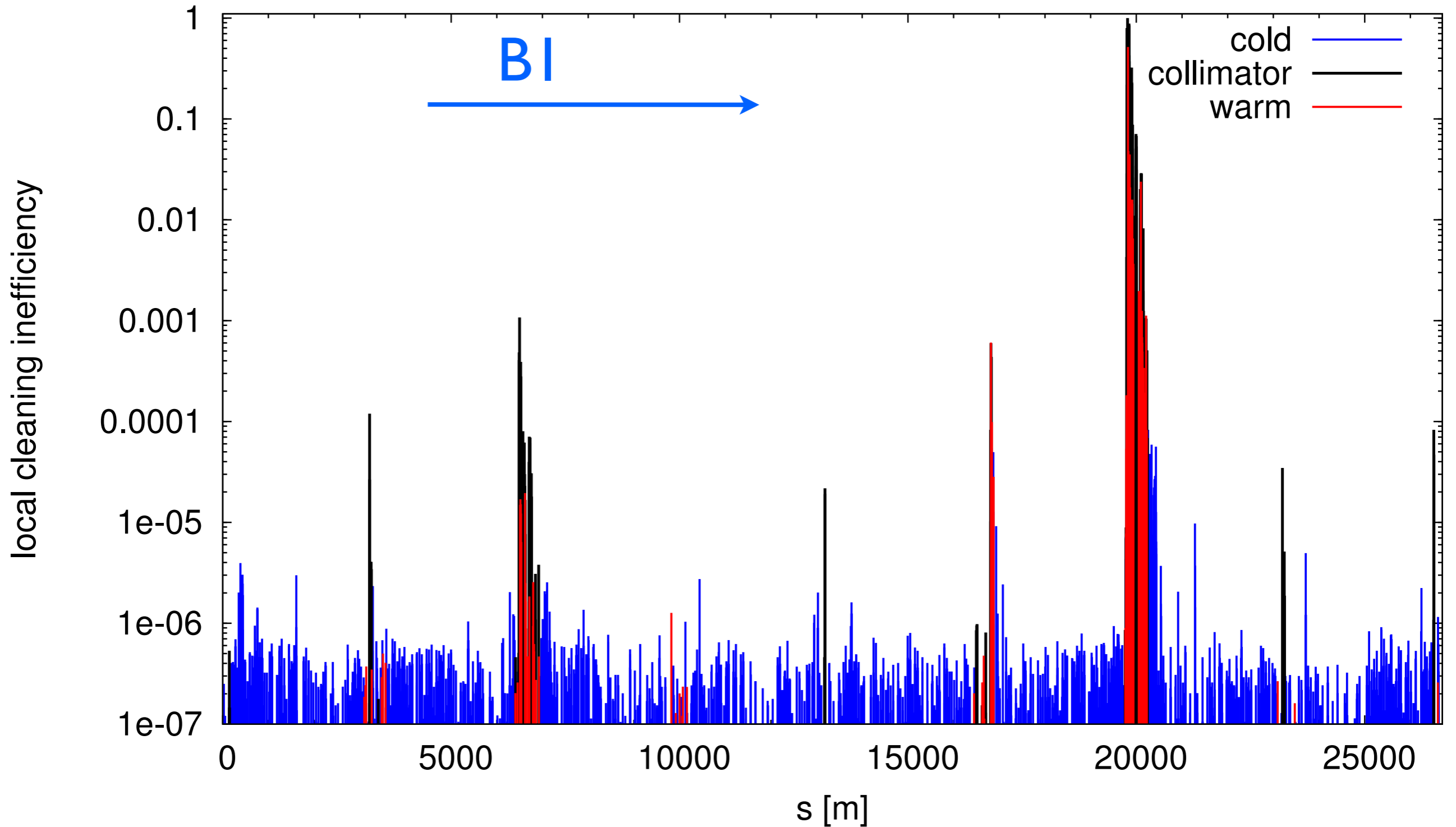
BI-V 2012.07.01 05:37:08

betatron losses B1 4000GeV ver norm IR7 (2012.07.01, 05:37:08)



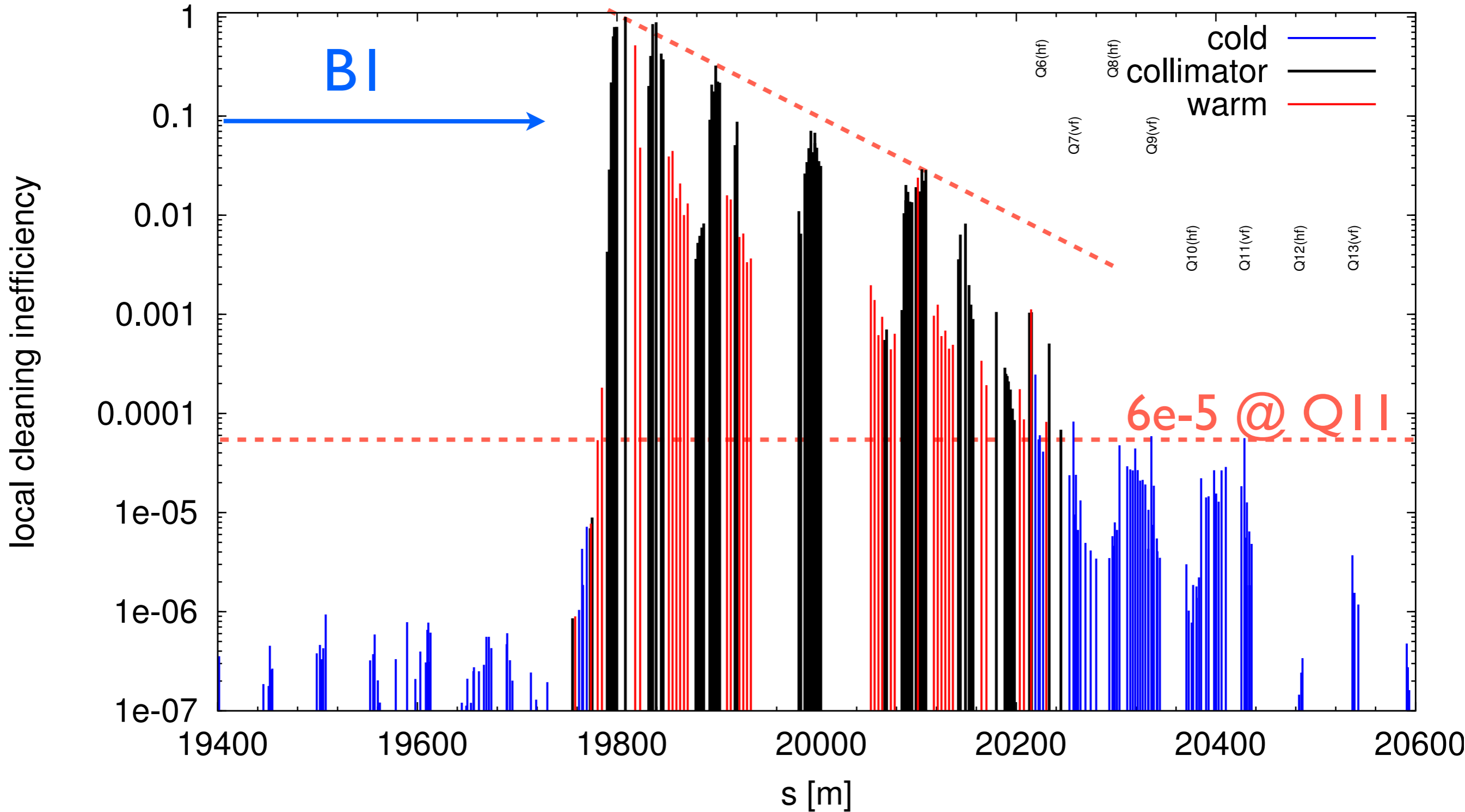
BI-H 2012.07.01 05:41:31

betatron losses B1 4000GeV hor norm F (2012.07.01, 05:41:31)



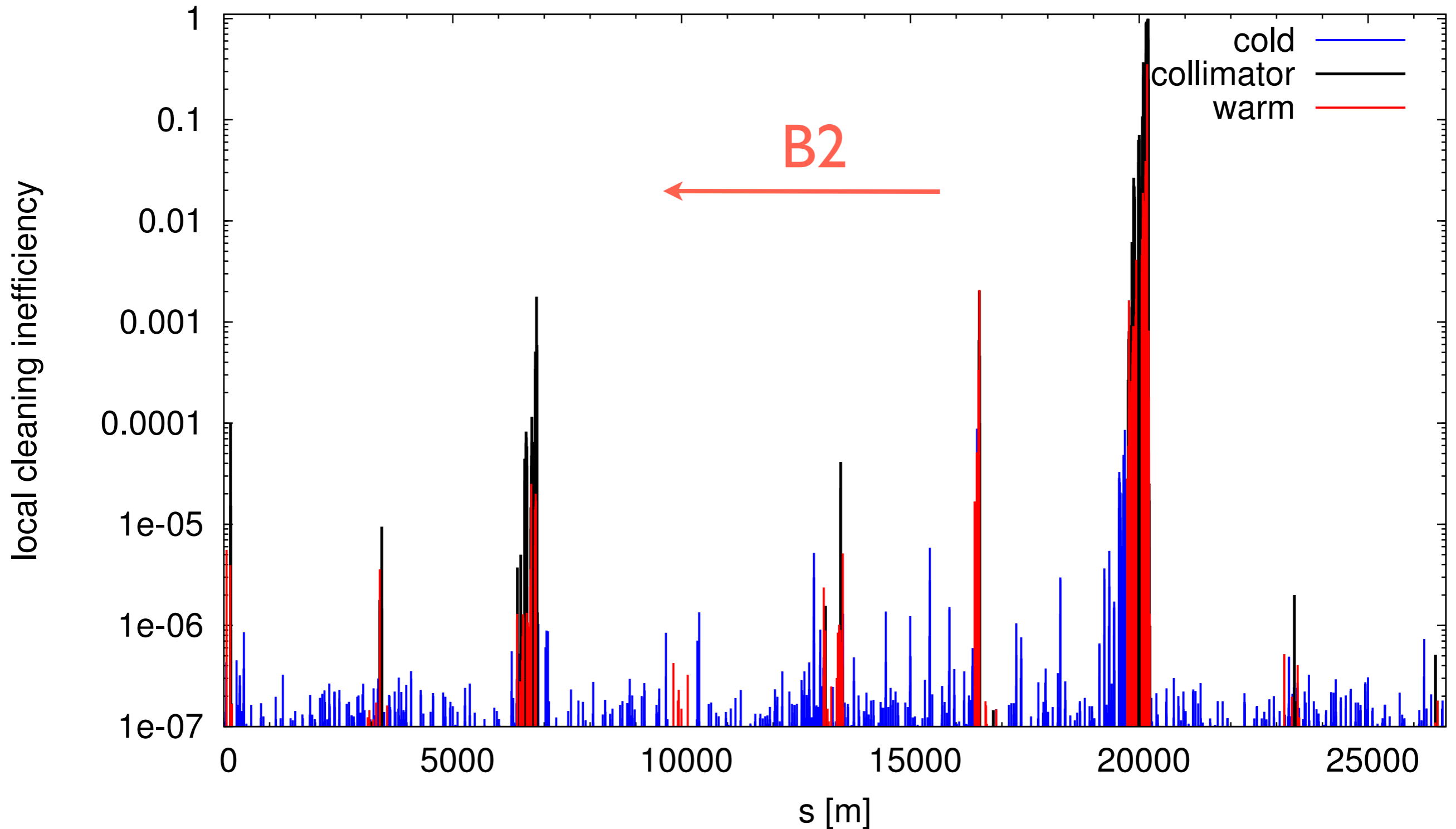
BI-H 2012.07.01 05:41:31

betatron losses B1 4000GeV hor norm IR7 (2012.07.01, 05:41:31)



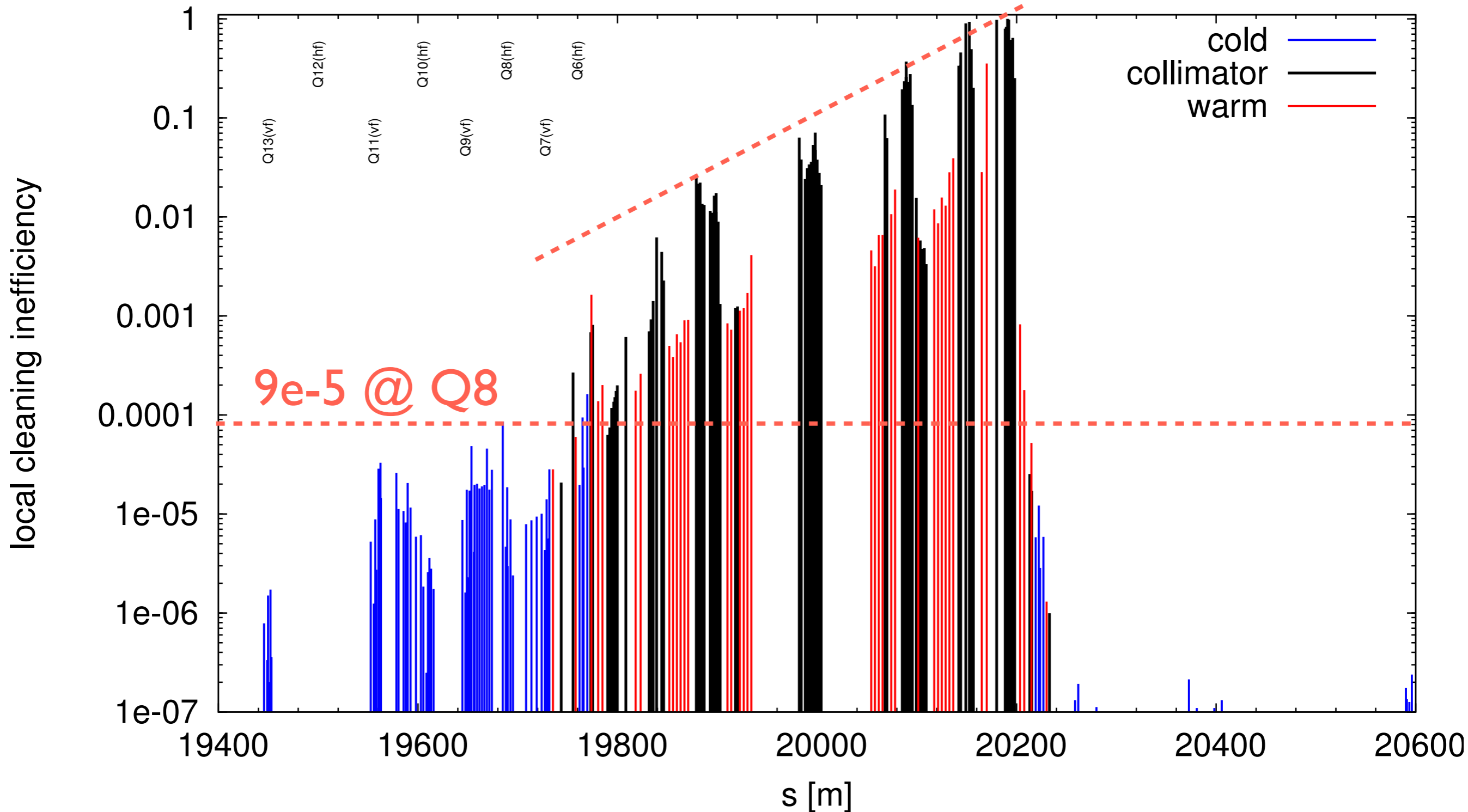
B2-V 2012.07.01 05:47:59

betatron losses B2 4000GeV ver norm F (2012.07.01, 05:47:59)



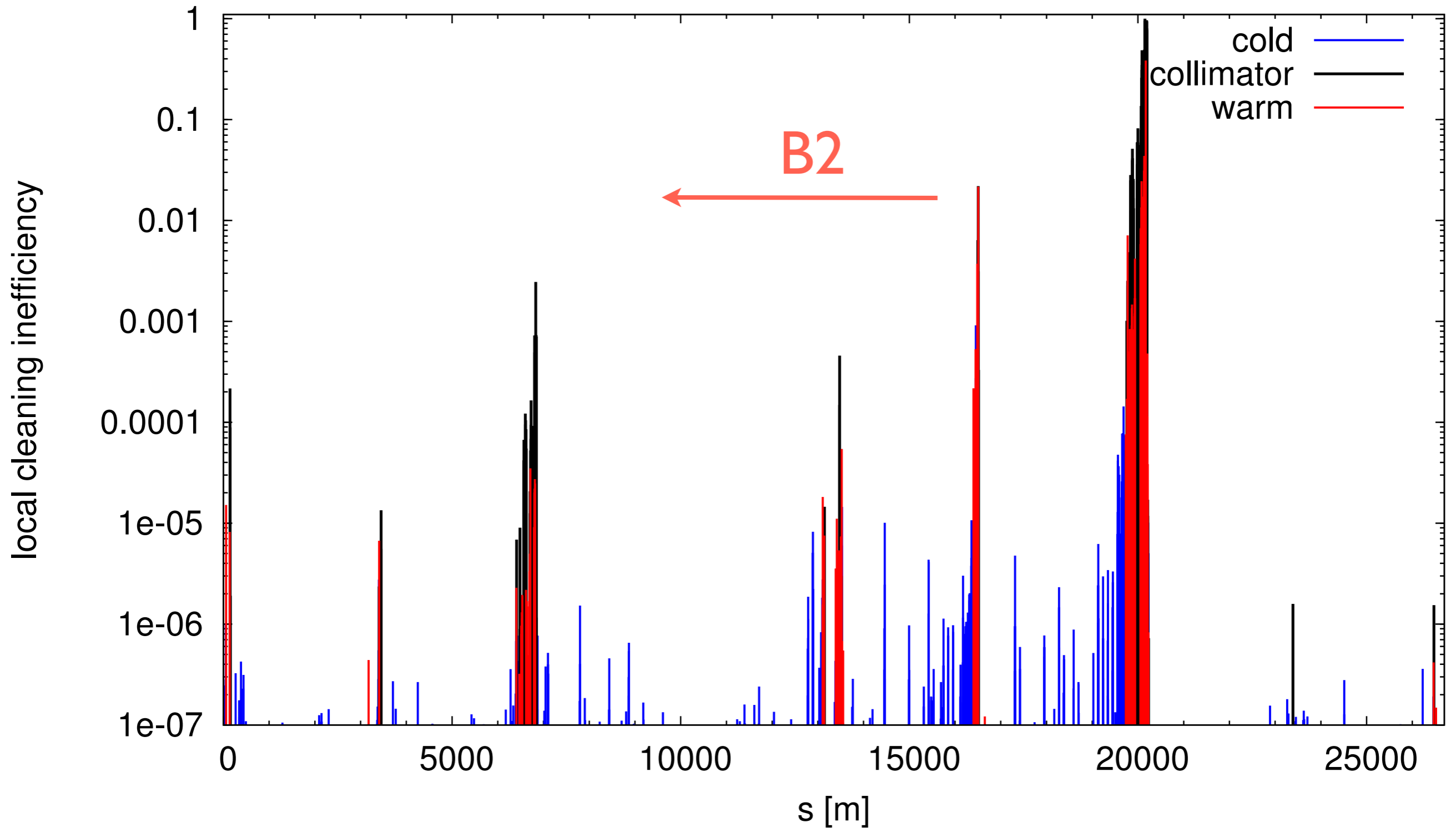
B2-V 2012.07.01 05:47:59

betatron losses B2 4000GeV ver norm IR7 (2012.07.01, 05:47:59)



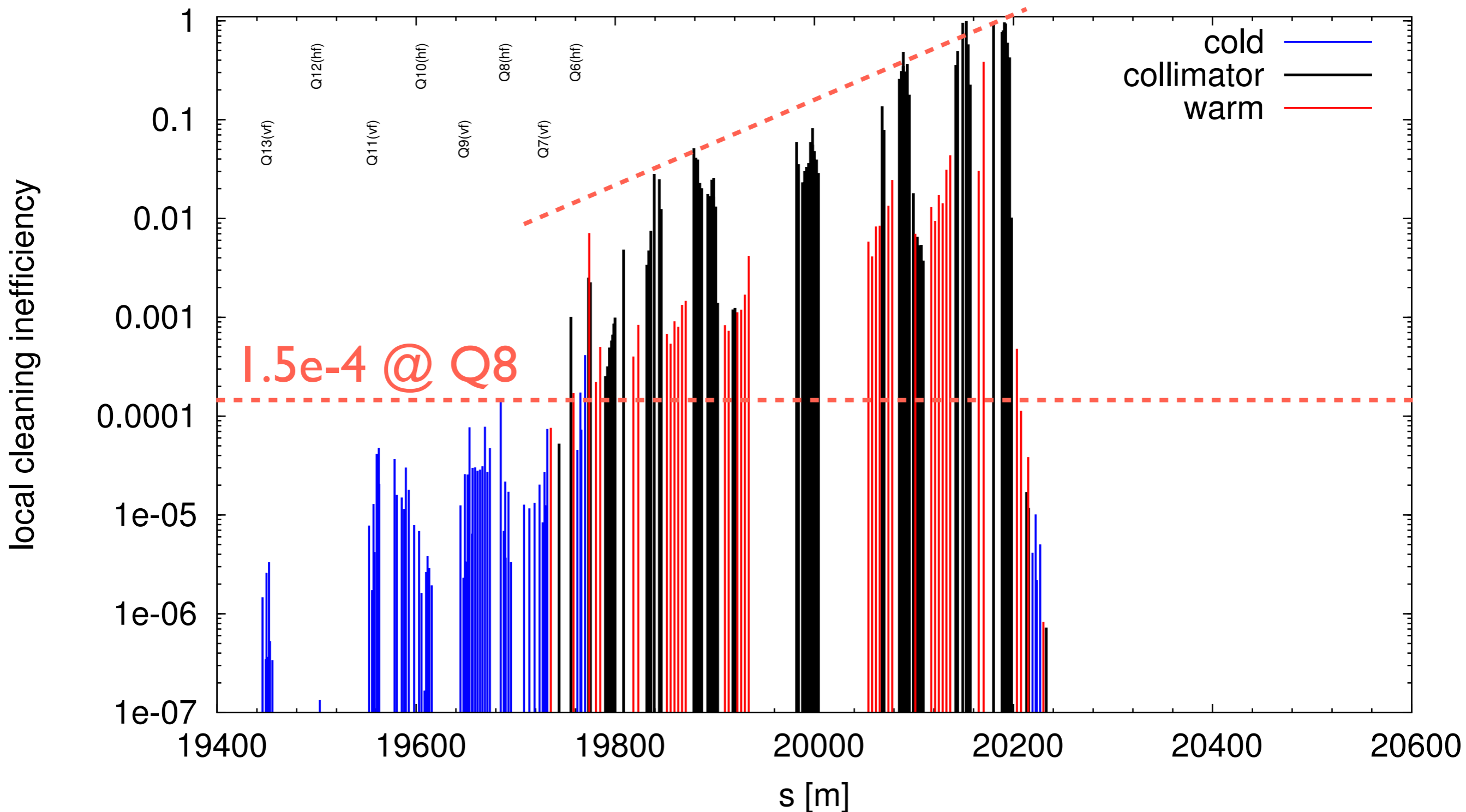
B2-H 2012.07.01 05:49:50

betatron losses B2 4000GeV hor norm F (2012.07.01, 05:49:50)



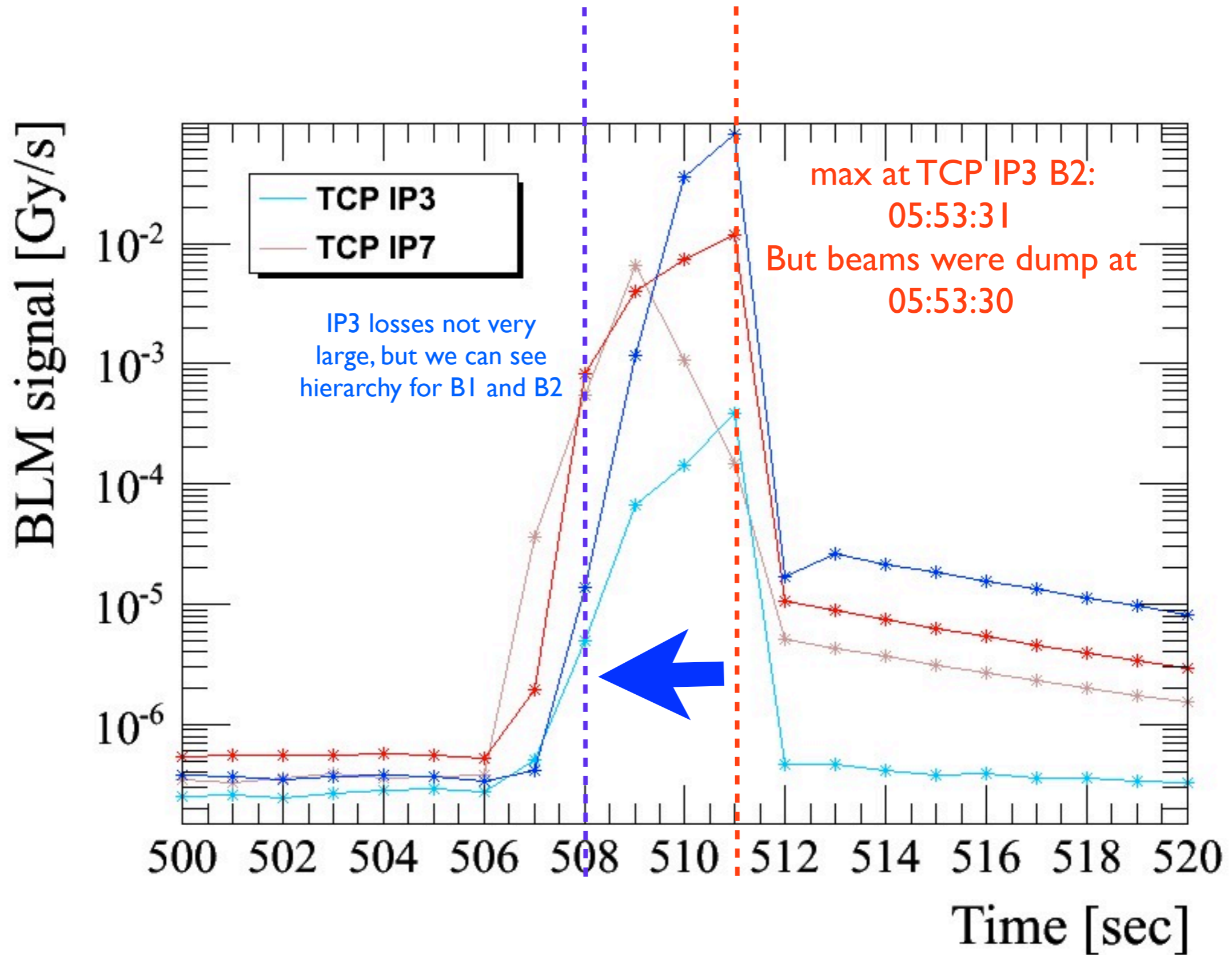
B2-H 2012.07.01 05:49:50

betatron losses B2 4000GeV hor norm IR7 (2012.07.01, 05:49:50)

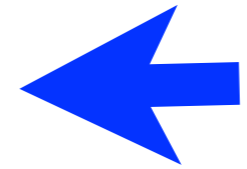
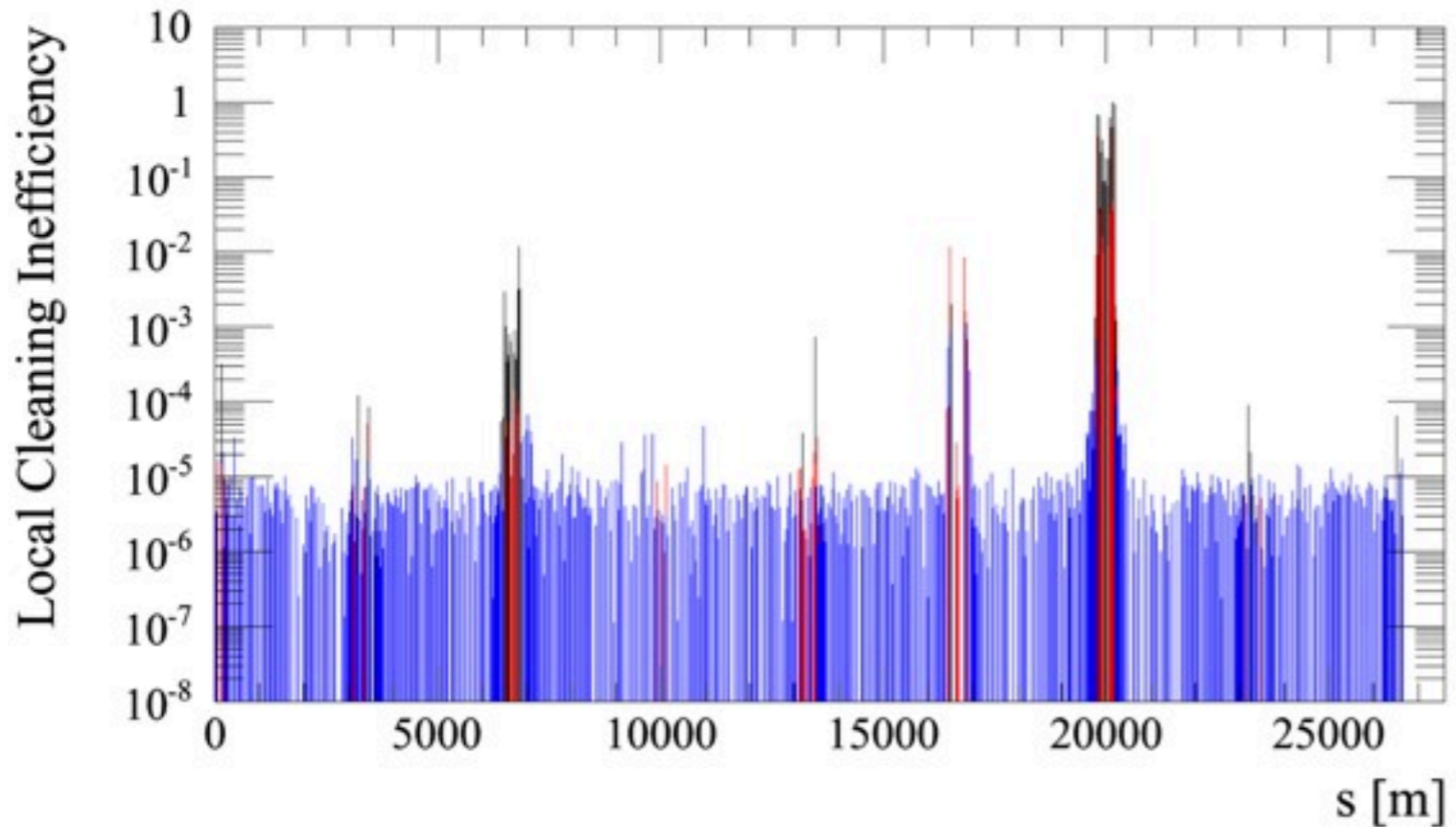


**Off - Momentum
lossmap**

Off-momentum lossmaps: Selecting time for the analysis



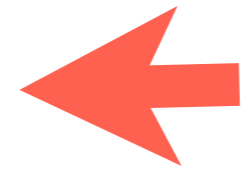
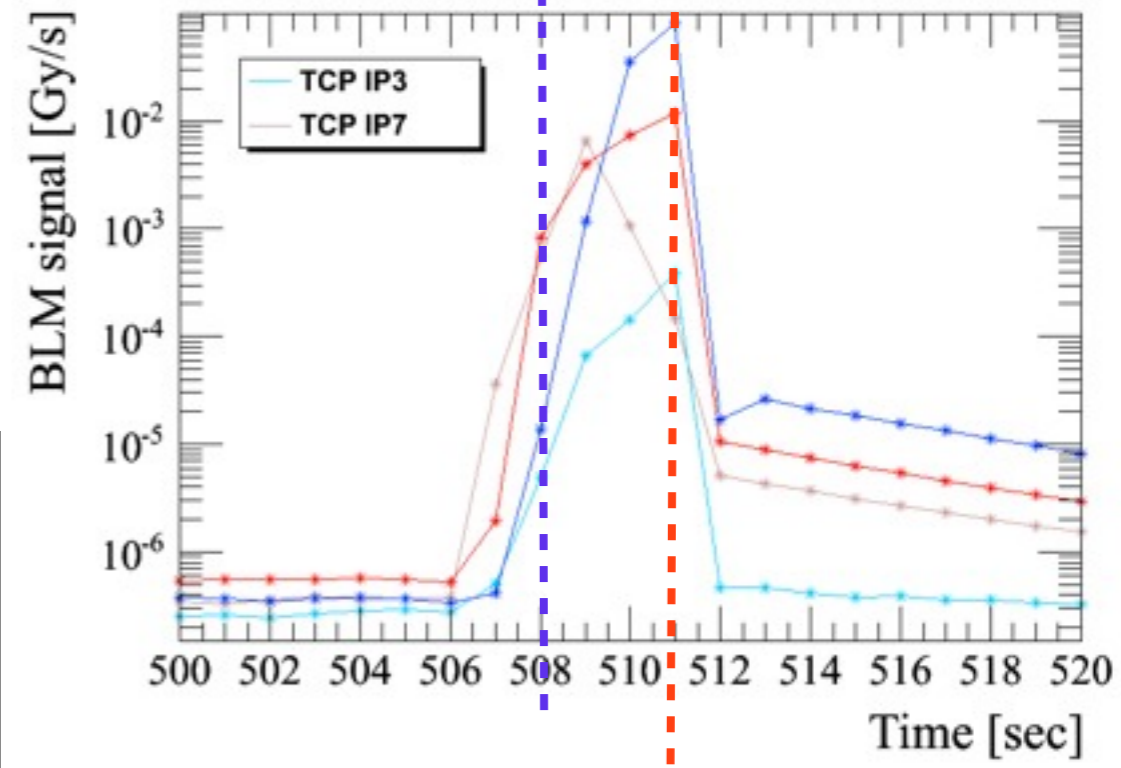
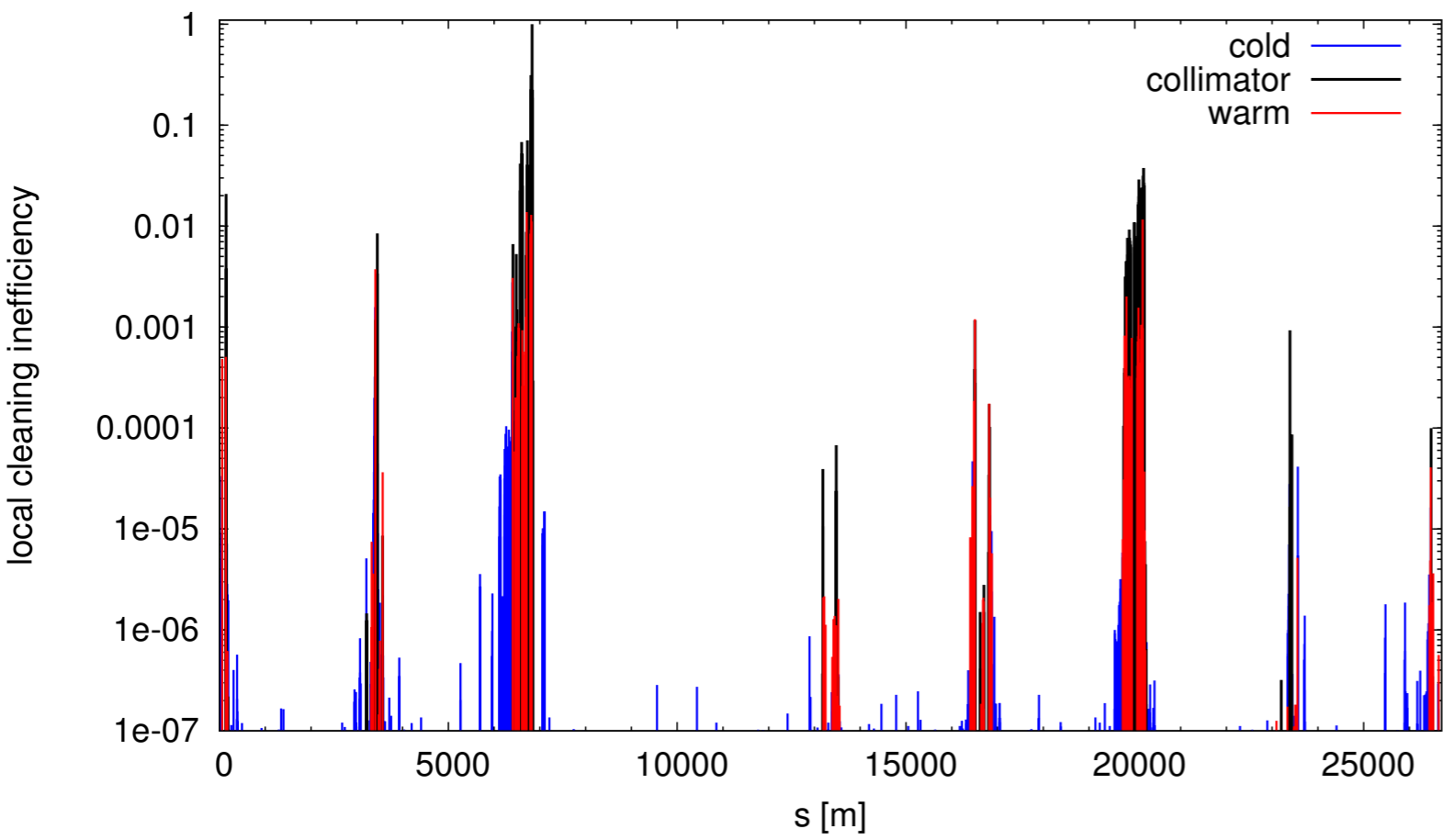
B1+B2 NEG-4TeV Date/Time: 2012-07-01 05:53:28



IP3 losses not very large, but we can see hierarchy for B1 and B2

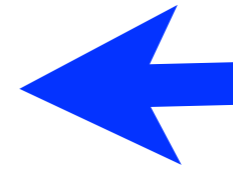
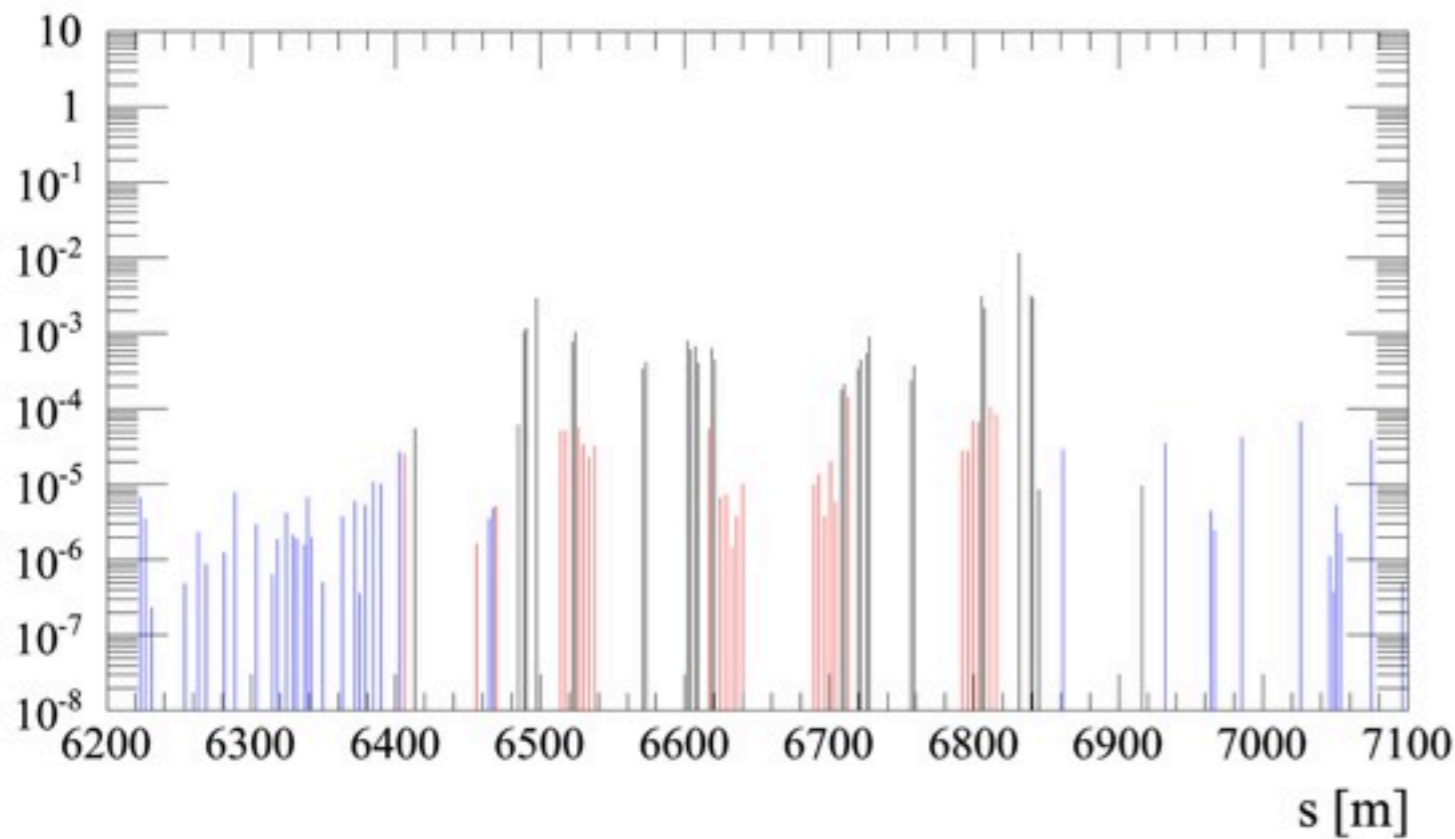
But they are mainly betatron losses

momentum losses B1 and B2 4000GeV neg offset norm F (2012.07.01, 05:53:30)



max at TCP IP3 B2:
05:53:31
But beams were dump at
05:53:30

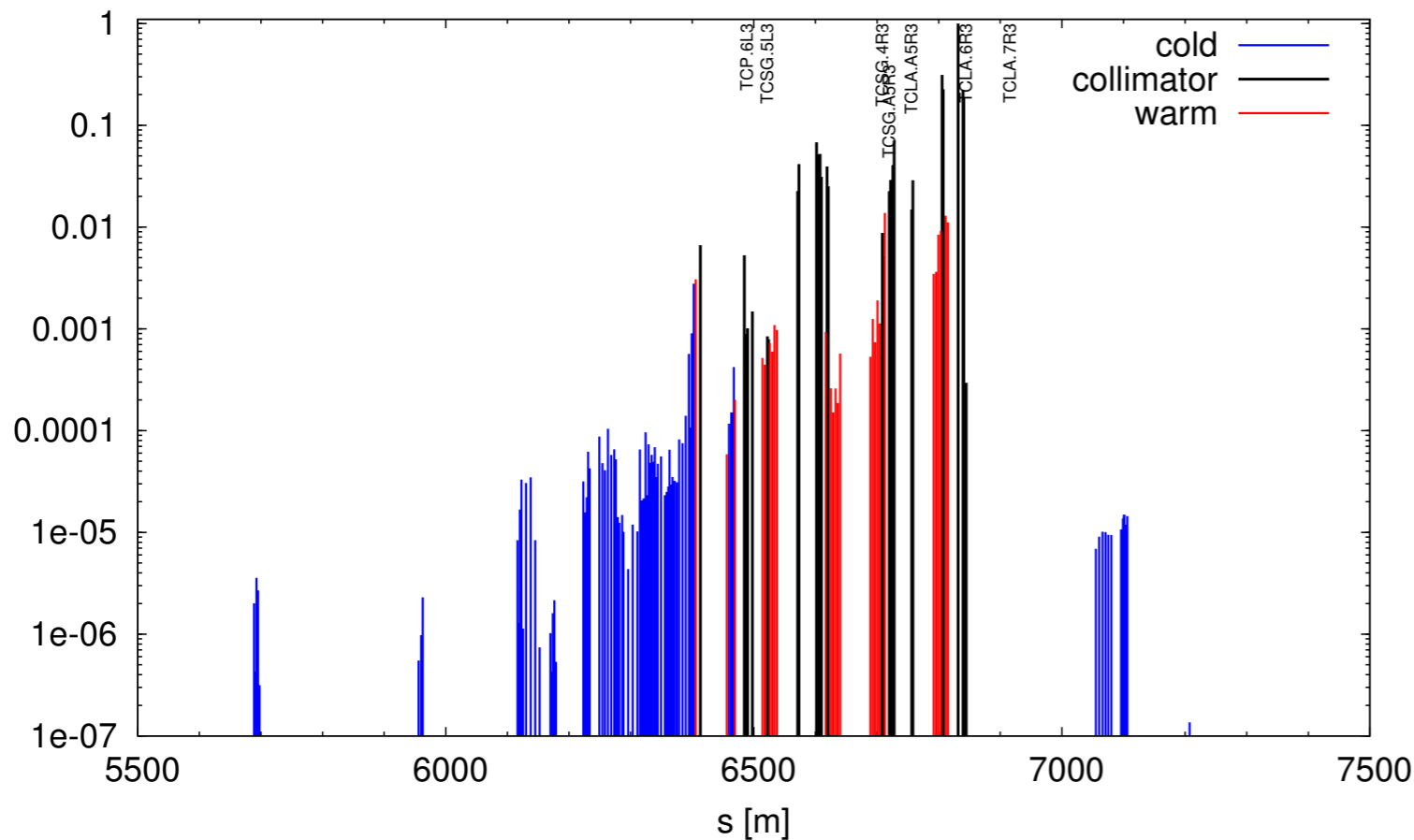
Local Cleaning Inefficiency



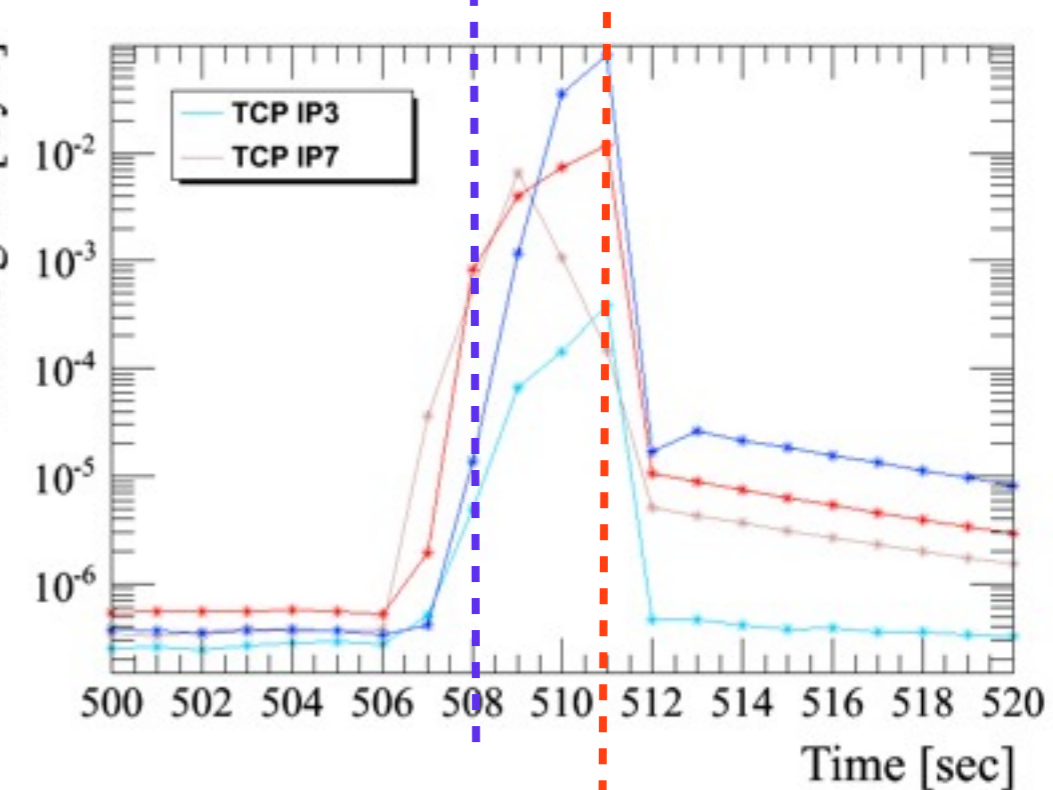
IP3 losses not very large, but we can see hierarchy for B1 and B2

But they are mainly betatron losses

momentum losses B1 and B2 4000GeV neg offset norm IR3 (2012.07.01, 05:53:30)



BLM signal [Gy/s]



max at TCP IP3 B2:
05:53:31
But beams were dump at
05:53:30

Qualification Lossmaps after TS2

Lossmap	2012-07-01	Status
BI-V	05:37:08	OK
BI-H	05:41:31	OK
B2-V	05:47:59	OK
B2-H	05:49:50	OK
BI+B2 NEG off-momentum (+500Hz)	05:53:30	not clear, B2 seems ok, BI doesn't show up in the lossmap