

Qualification lossmaps at 450GeV: Inj. Prot. IN and OUT

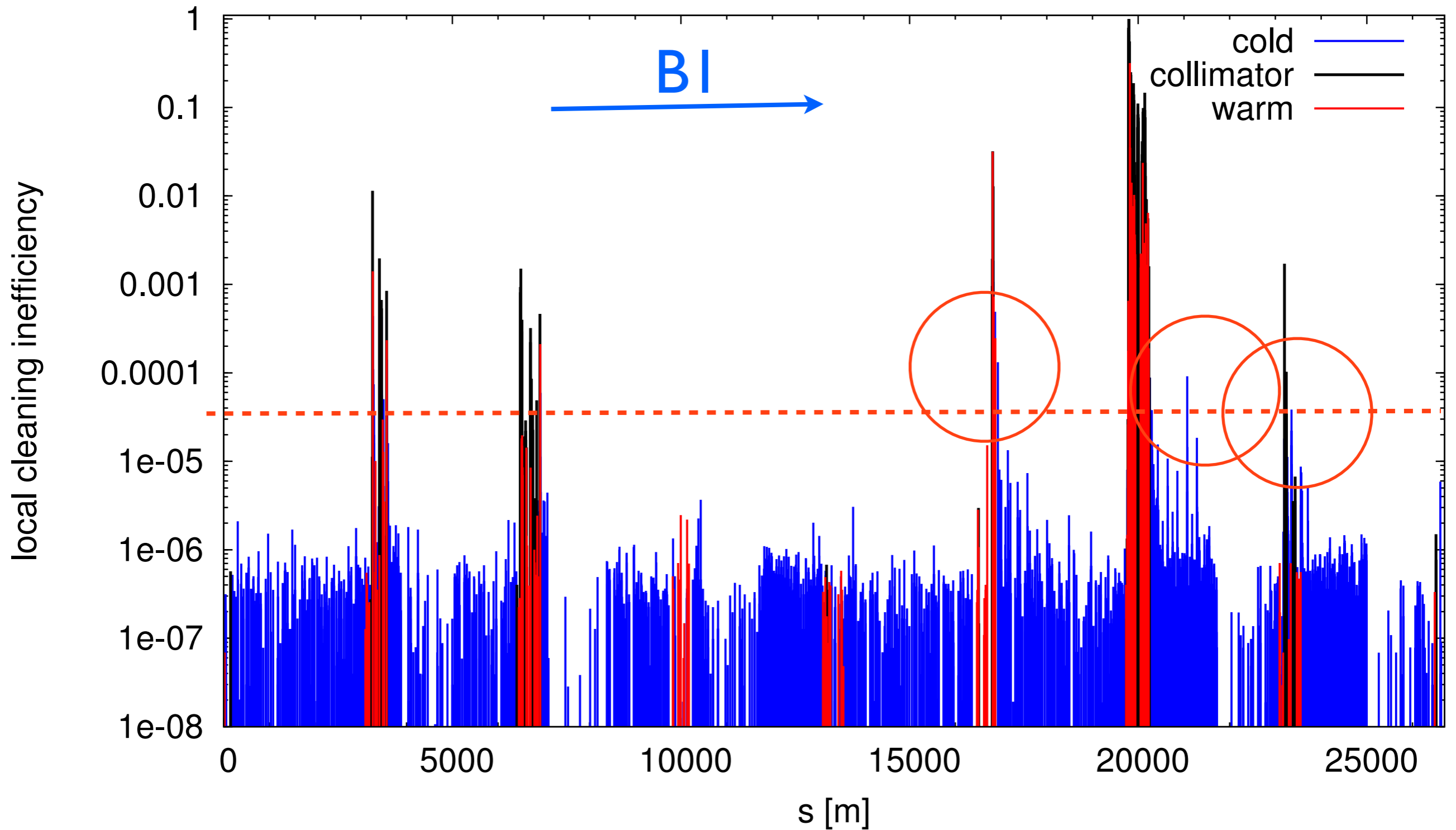
S.Redaeli, B.Salvachua & G.Valentino
for the Collimation Team

Lossmaps 450GeV Inj. protection IN

Type	2012-07-01
BI Hor	21:20:25
BI Ver	21:23:31
B2 Hor	21:25:36
B2 Ver	21:27:34

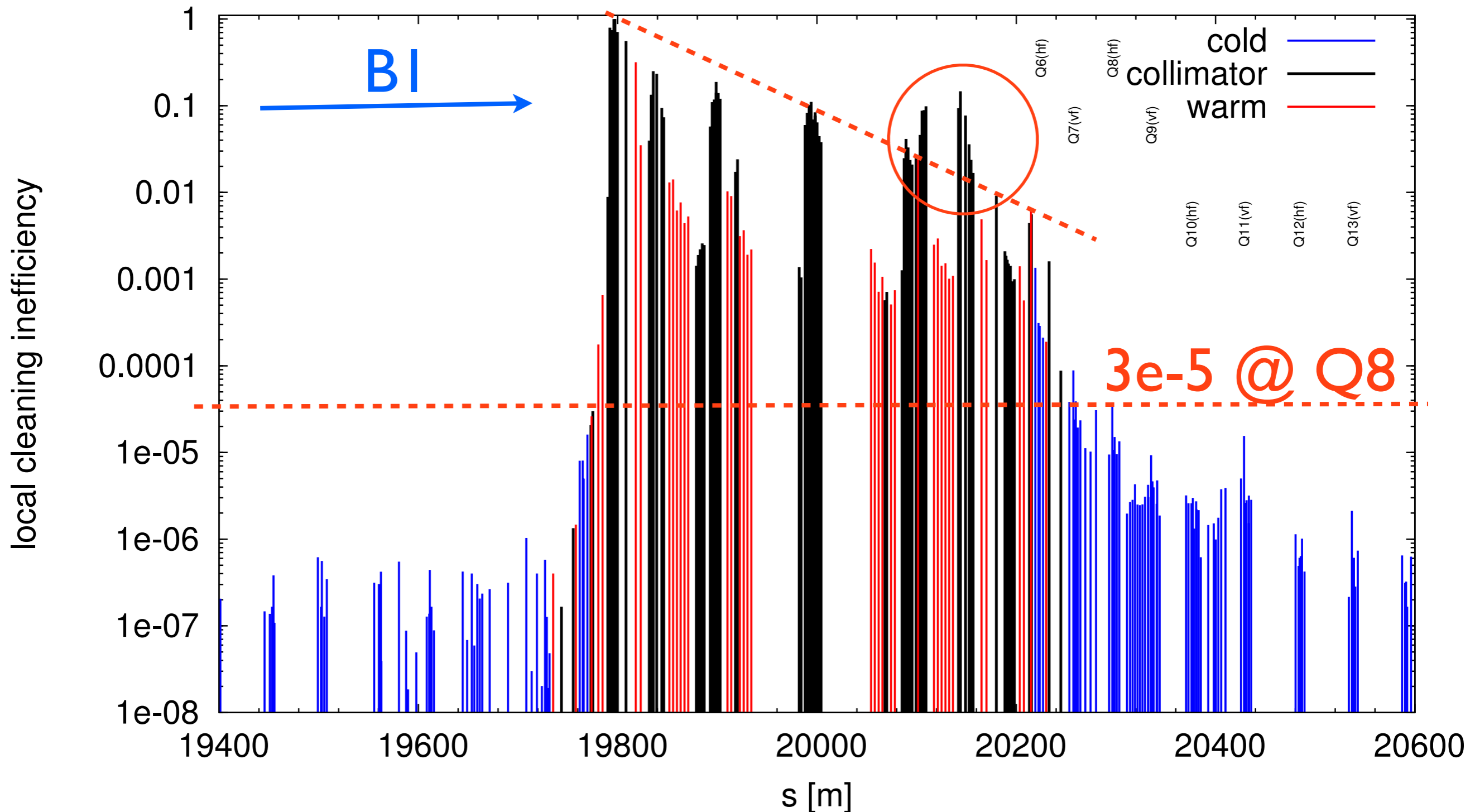
BI - Hor

betatron losses B1 4000GeV hor norm F (2012.07.01, 21:20:25)



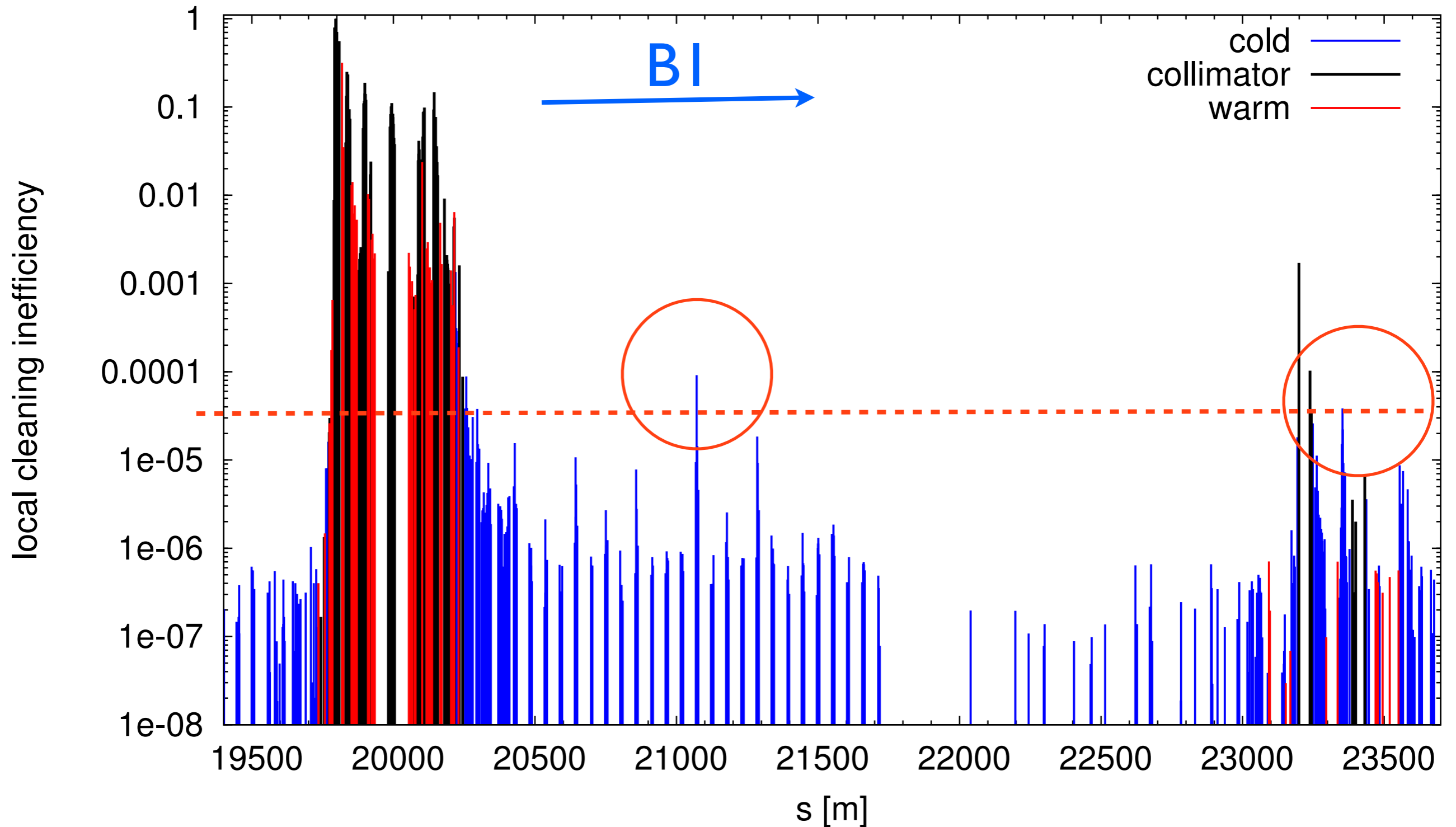
BI - Hor

betatron losses B1 4000GeV hor norm IR7 (2012.07.01, 21:20:25)



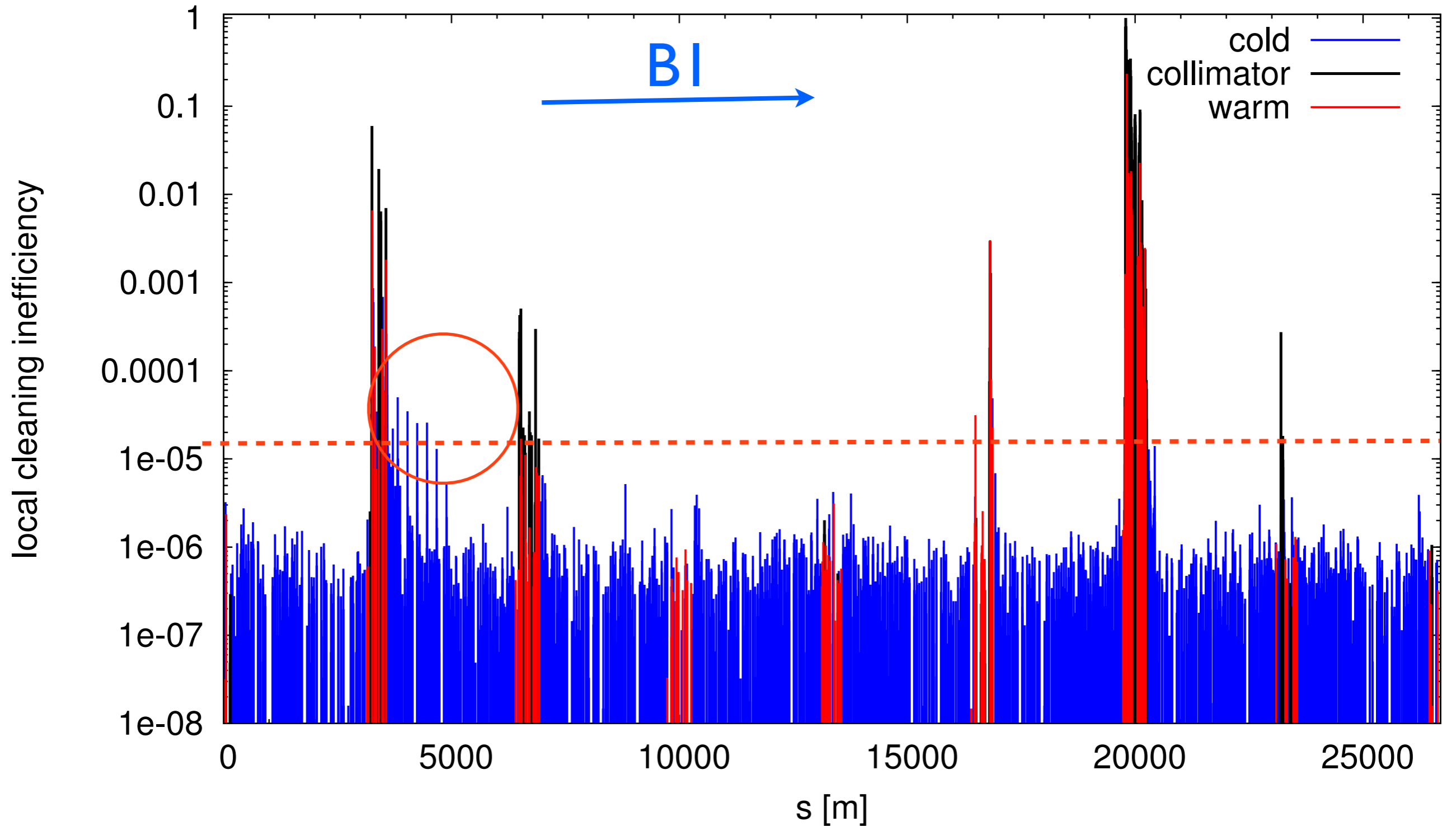
BI - Hor

betatron losses B1 4000GeV hor norm IR7-8 (2012.07.01, 21:20:25)



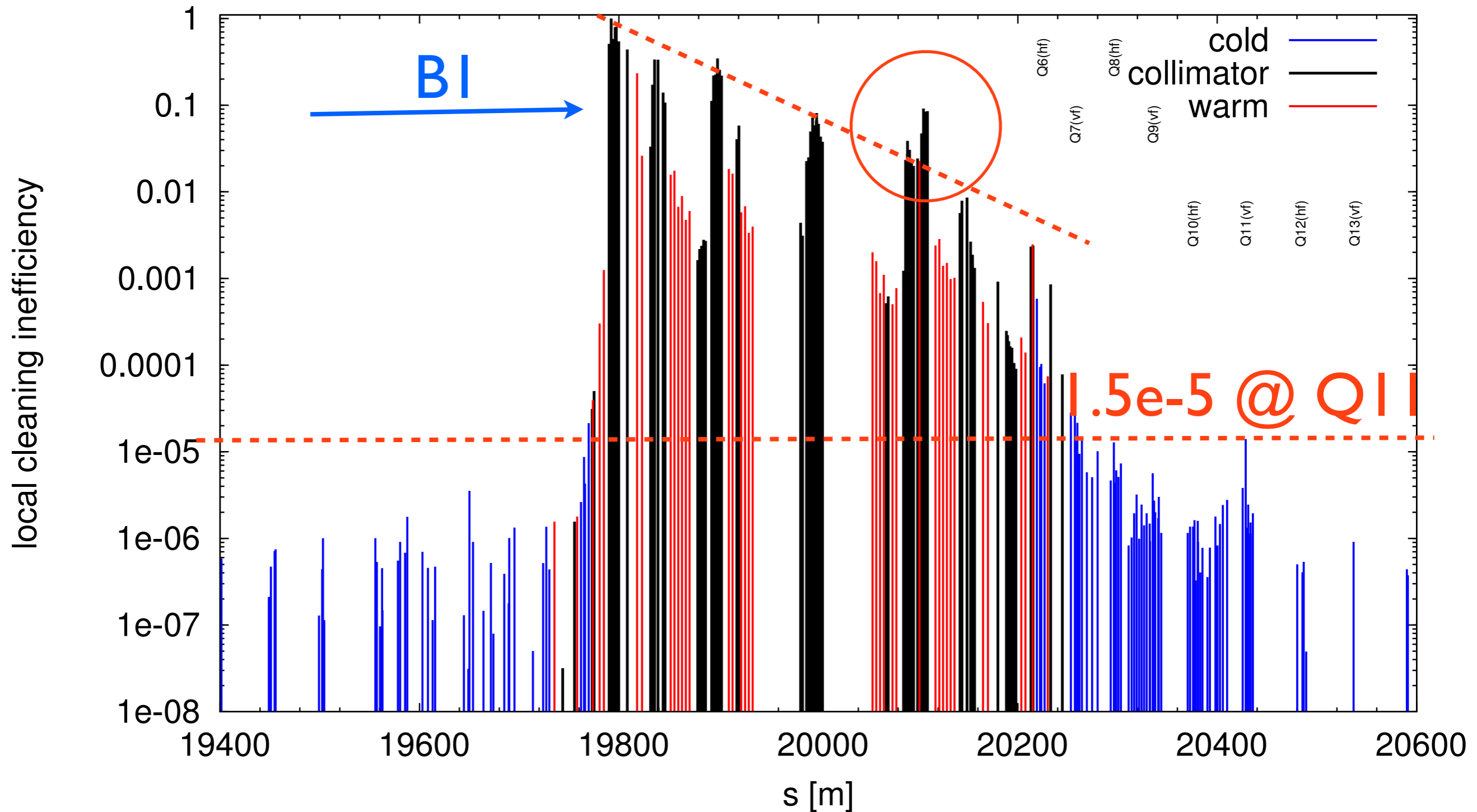
BI - Ver

betatron losses B1 4000GeV ver norm F (2012.07.01, 21:23:31)



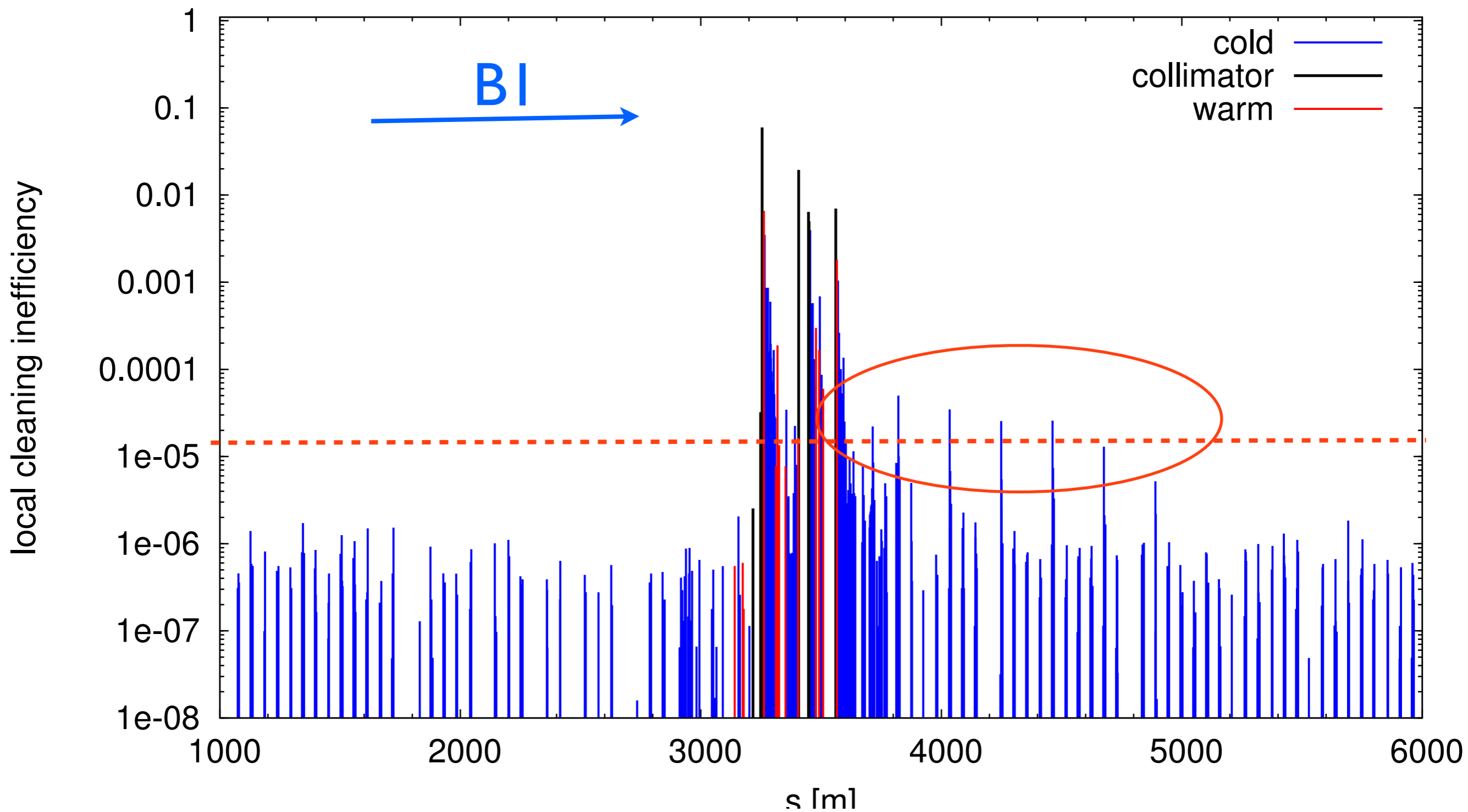
BI - Ver

betatron losses B1 4000GeV ver norm IR7 (2012.07.01, 21:23:31)



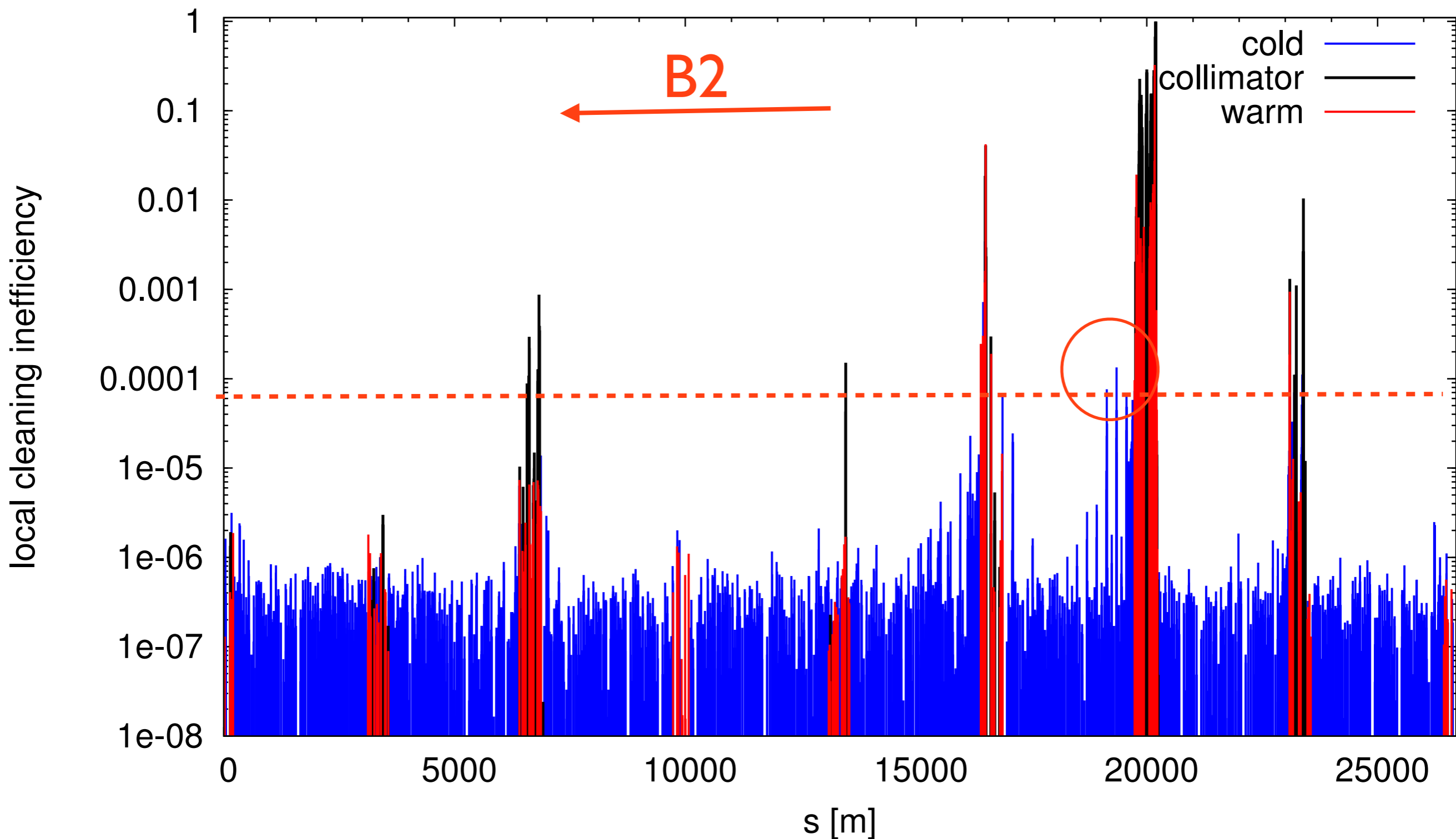
BI - Ver

betatron losses B1 4000GeV ver norm IR2 (2012.07.01, 21:23:31)



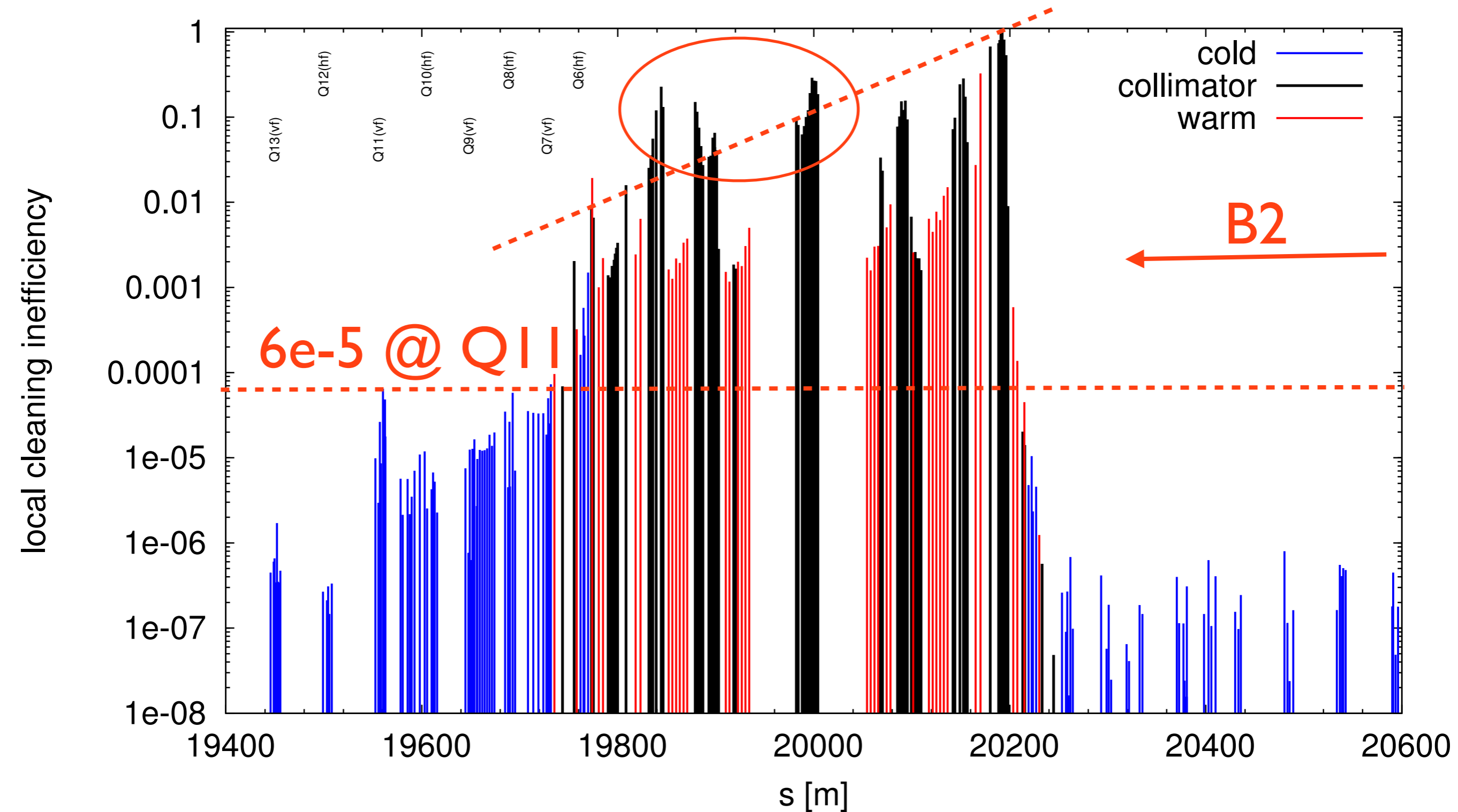
B2- Hor

betatron losses B2 4000GeV hor norm F (2012.07.01, 21:25:36)



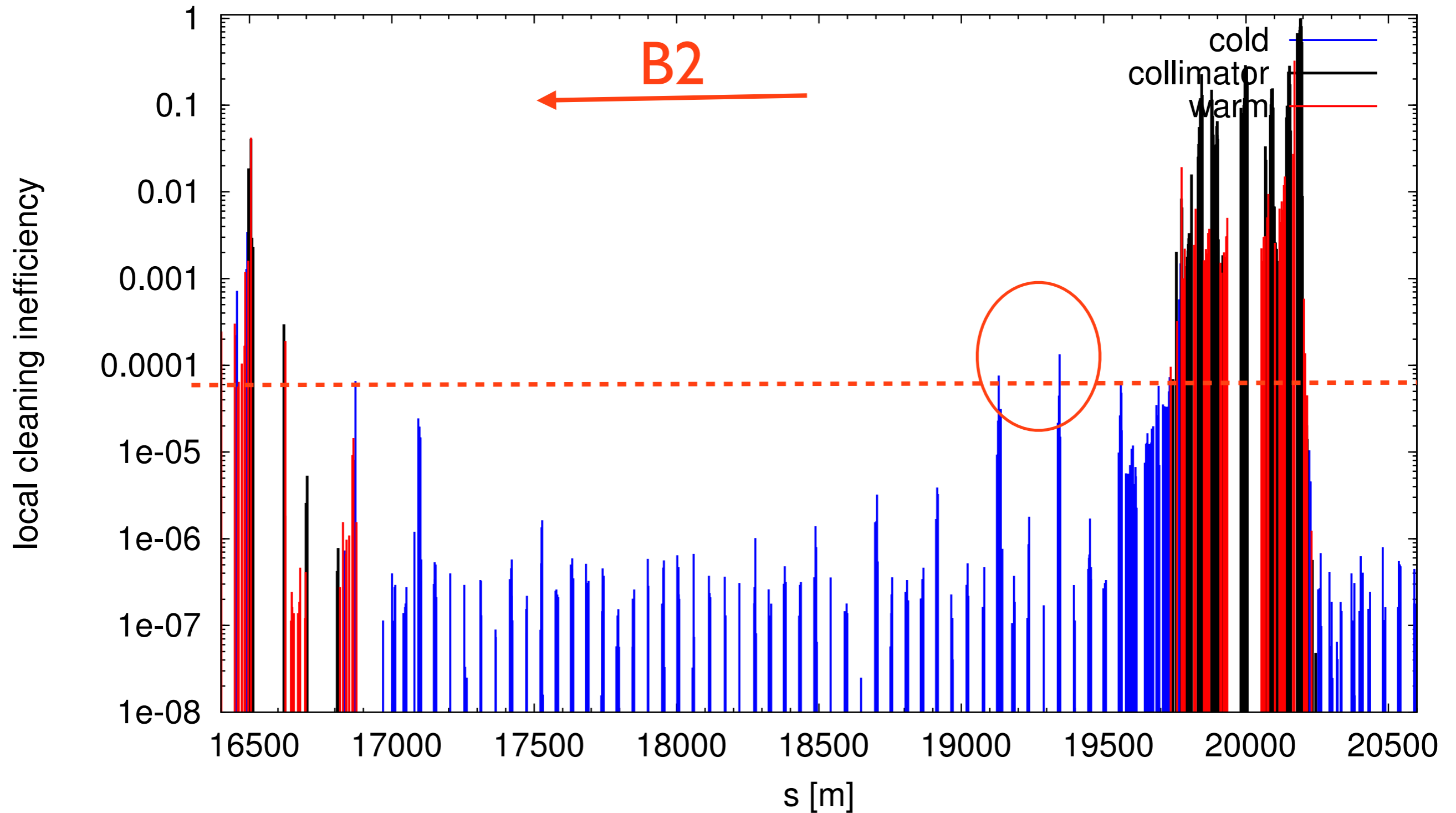
B2- Hor

betatron losses B2 4000GeV hor norm IR7 (2012.07.01, 21:25:36)



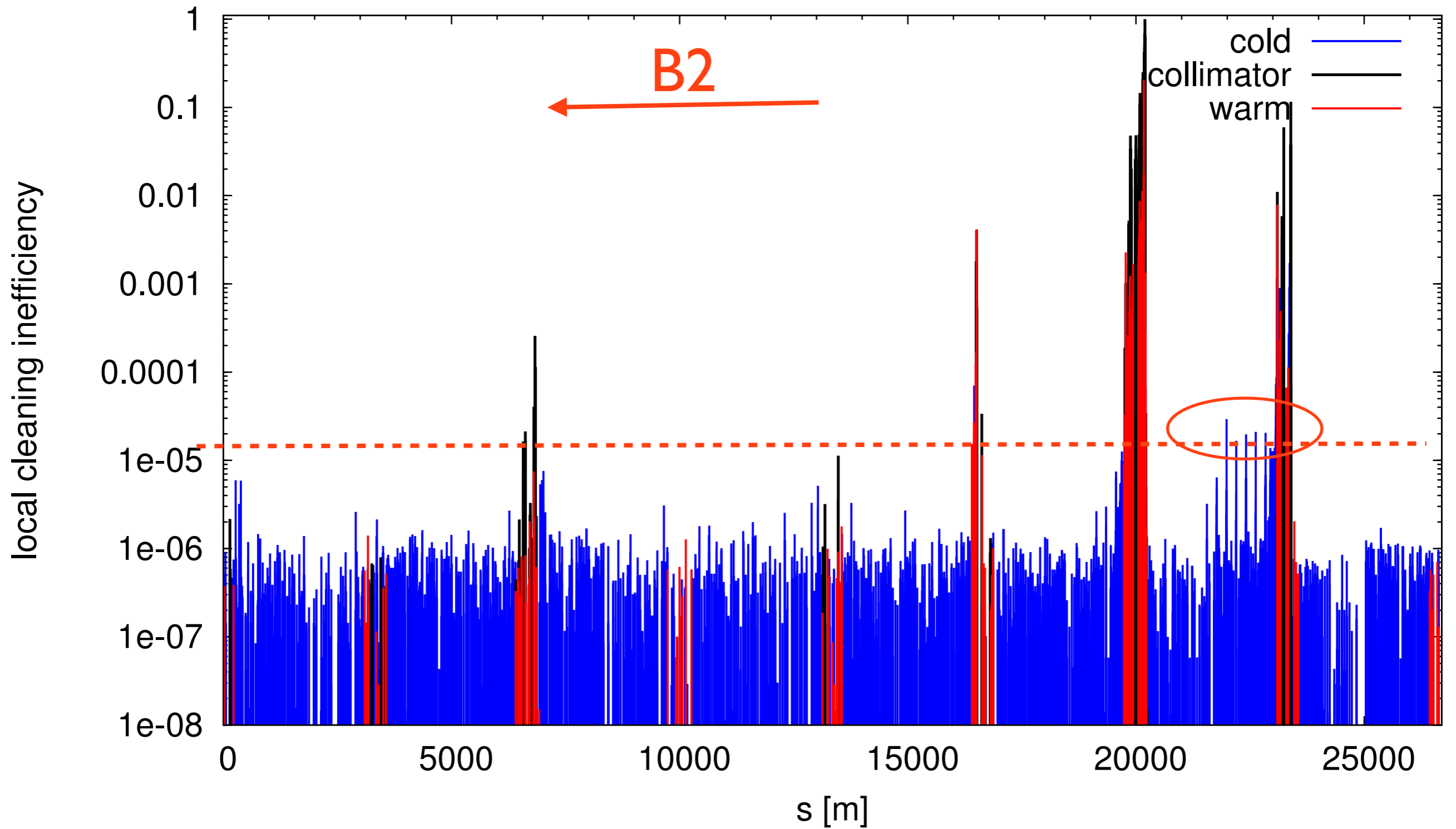
B2- Hor

betatron losses B2 4000GeV hor norm IR6-7 (2012.07.01, 21:25:36)



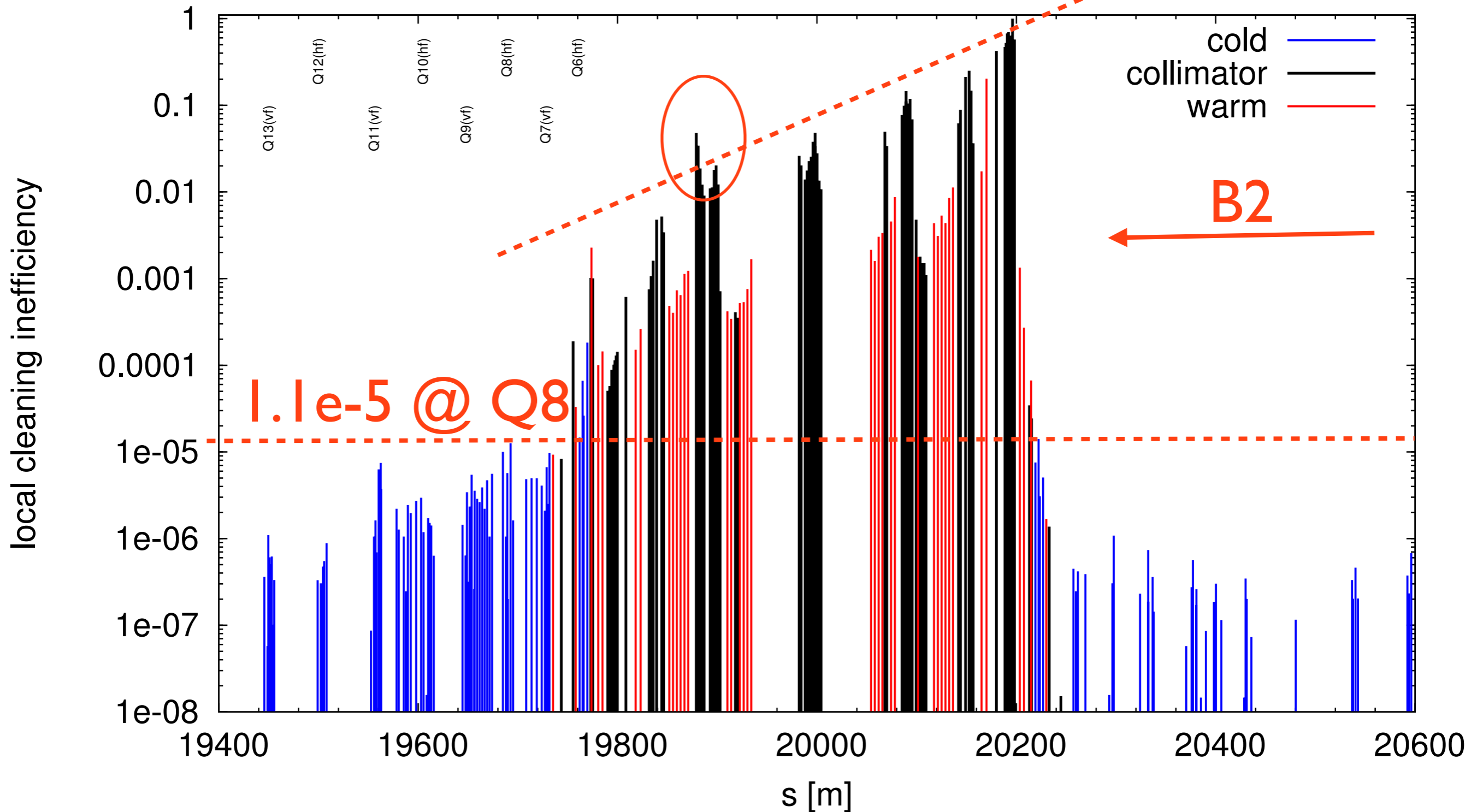
B2-Ver

betatron losses B2 4000GeV ver norm F (2012.07.01, 21:27:34)



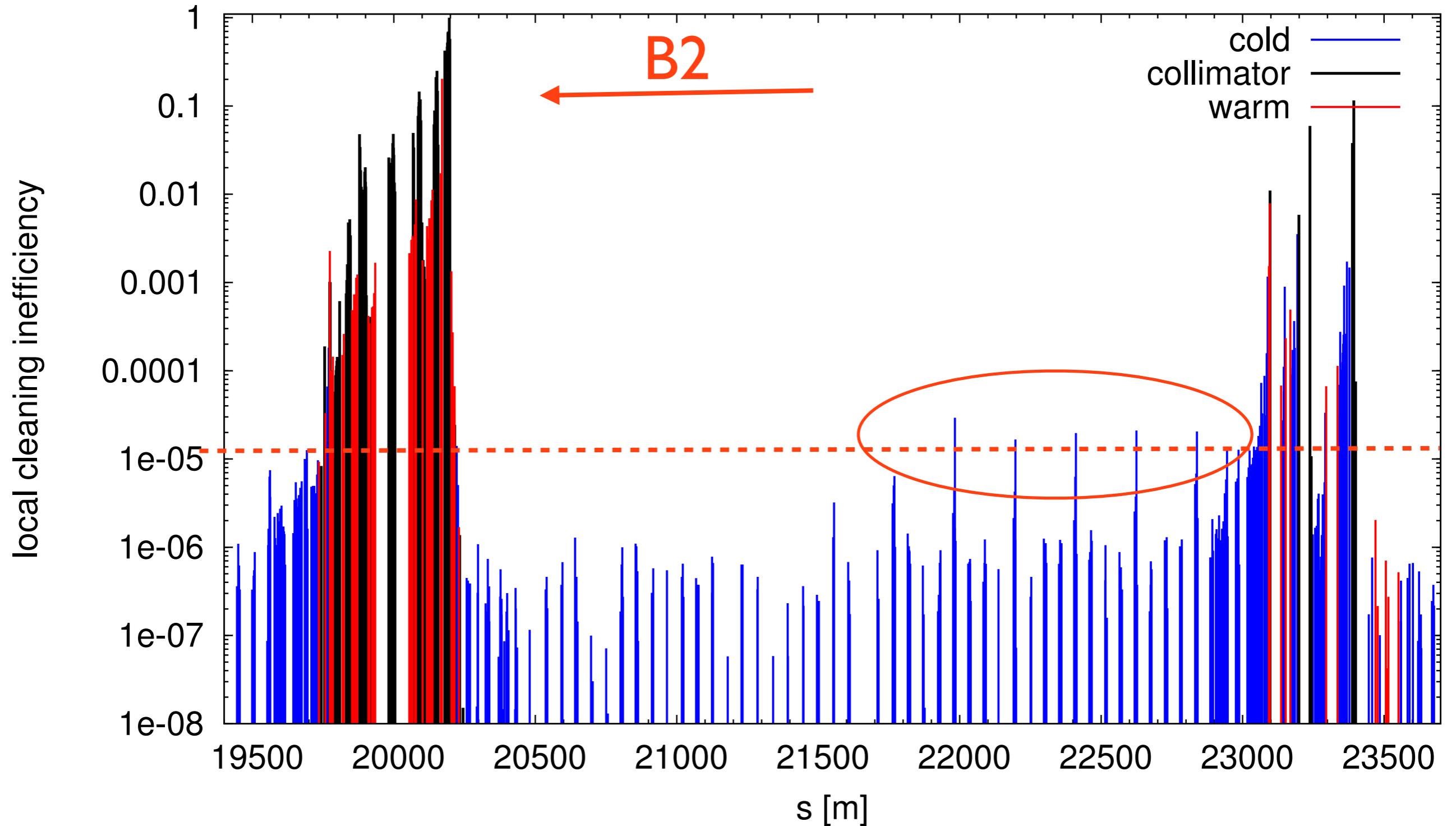
B2-Ver

betatron losses B2 4000GeV ver norm IR7 (2012.07.01, 21:27:34)



B2-Ver

betatron losses B2 4000GeV ver norm IR7-8 (2012.07.01, 21:27:34)



Lossmaps 450GeV Inj. protection IN

Expected losses slightly above cleaning inefficiency on IR6, IR7-8, IR8 due to larger beam size at 450GeV, still of the order of $1e-4$.

TCLA's IR7 slightly higher than 4TeV, expected as seen in previous lossmaps at injection

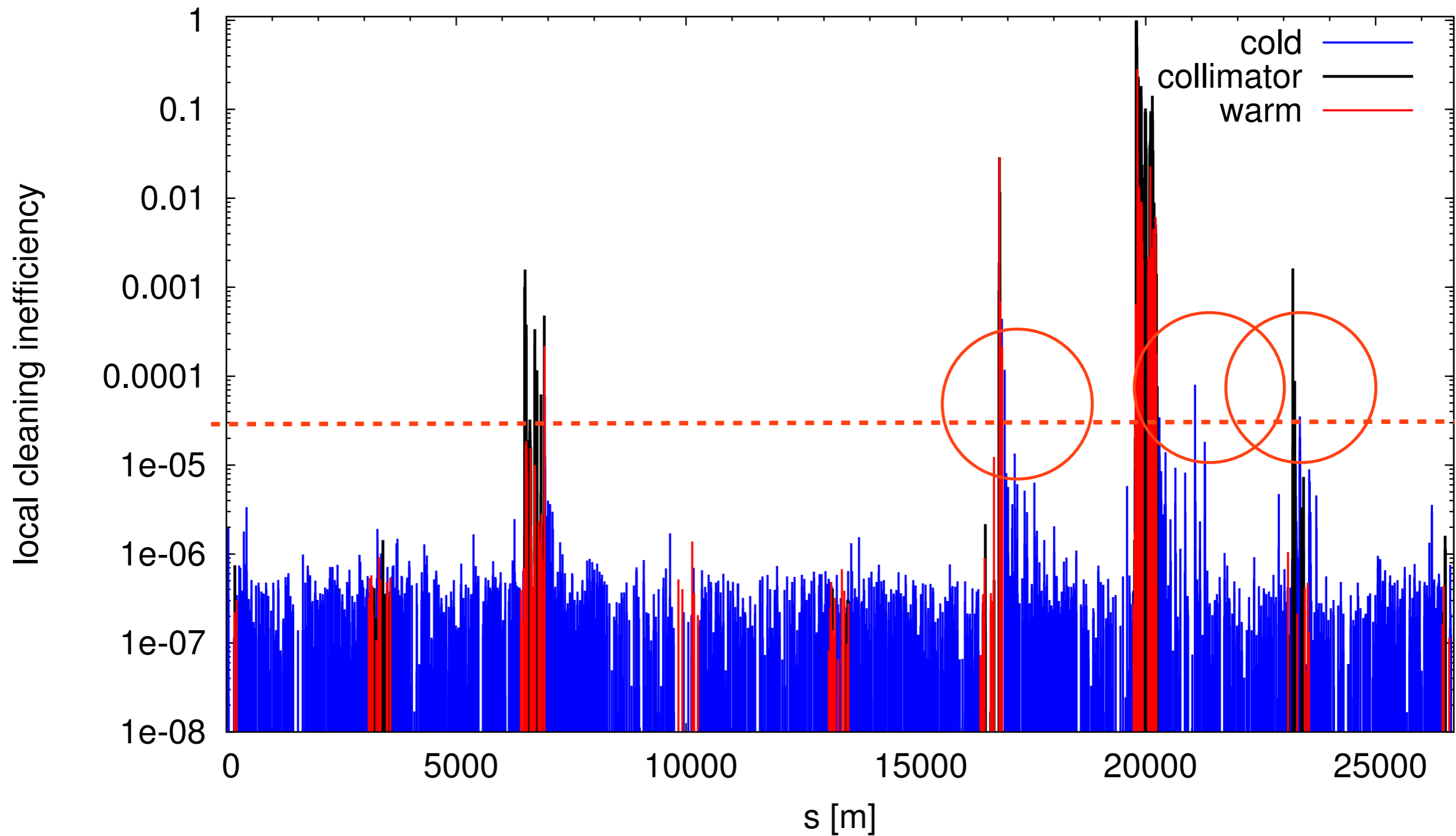
Type	2012-07-01	Status
BI Hor	21:20:25	OK
BI Ver	21:23:31	OK
B2 Hor	21:25:36	OK
B2 Ver	21:27:34	OK

Lossmaps 450GeV Inj. protection OUT

Type	2012-07-01
BI Hor	21:33:51
BI Ver	21:35:16
B2 Hor	21:36:33
B2 Ver	21:37:33
BI+B2 NEG	21:40:31
BI+B2 POS	21:58:11

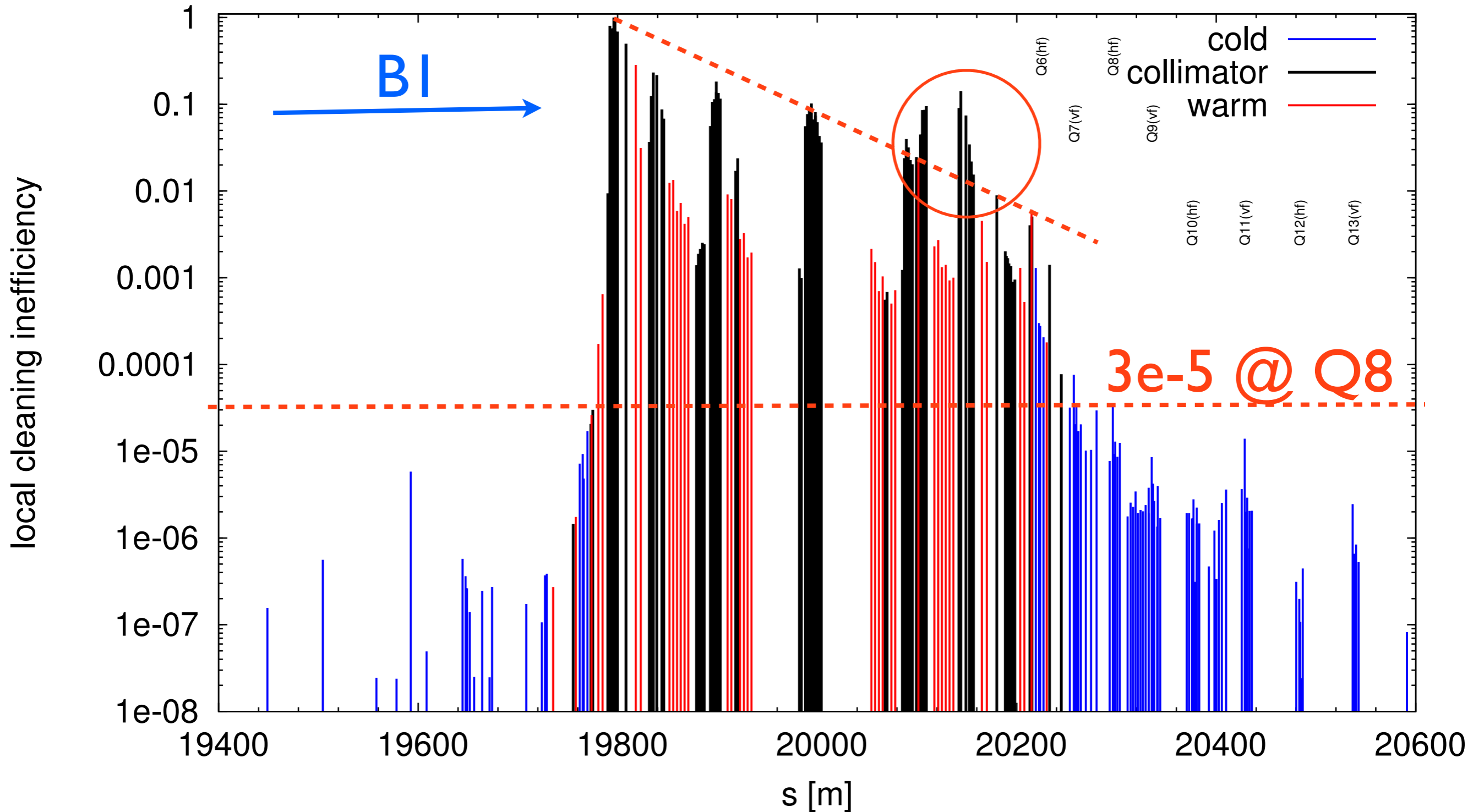
BI - Hor

betatron losses B1 450GeV hor norm F (2012.07.01, 21:33:51)



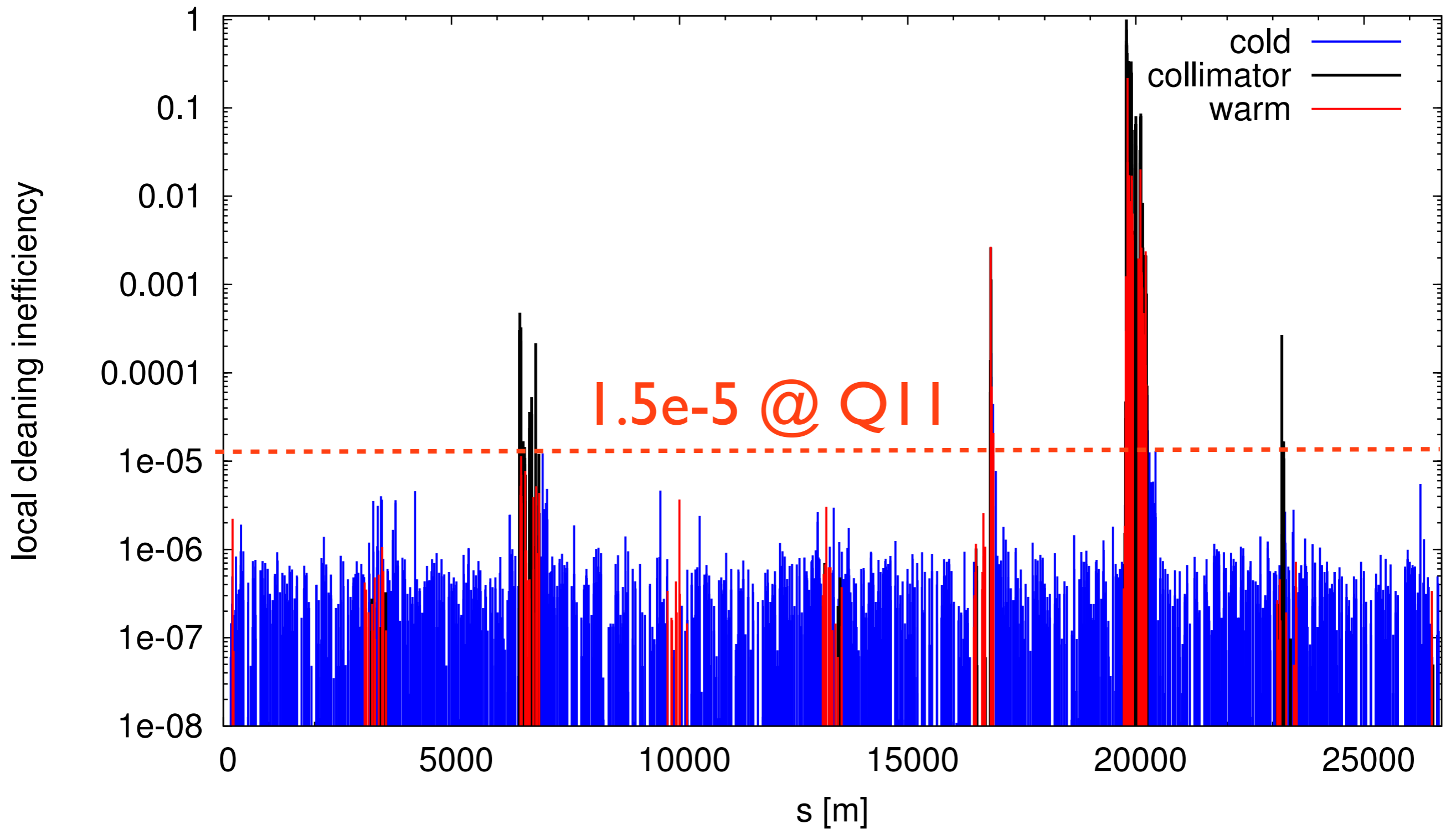
BI - Hor

betatron losses B1 450GeV hor norm IR7 (2012.07.01, 21:33:51)



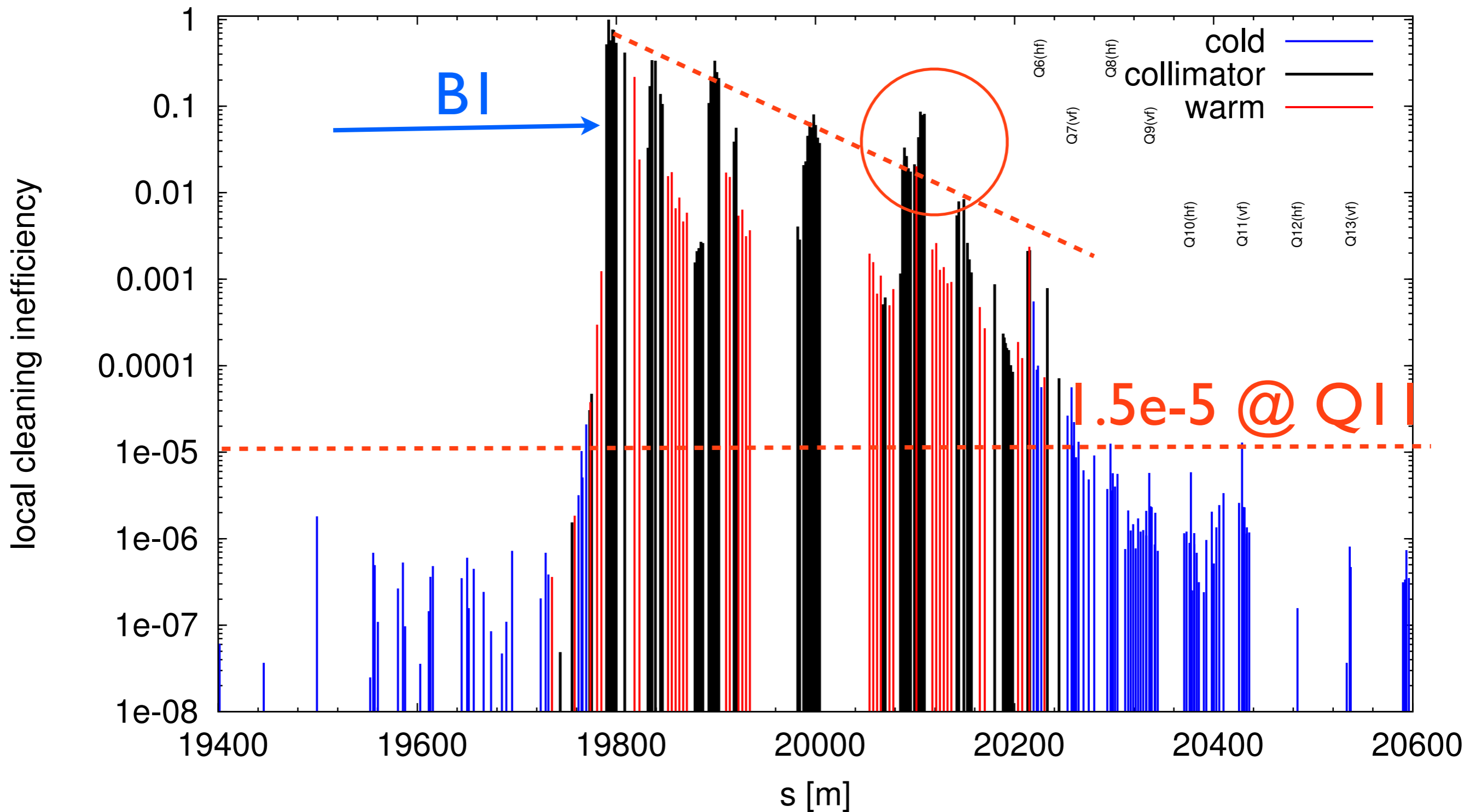
BI-Ver

betatron losses B1 450GeV ver norm F (2012.07.01, 21:35:16)



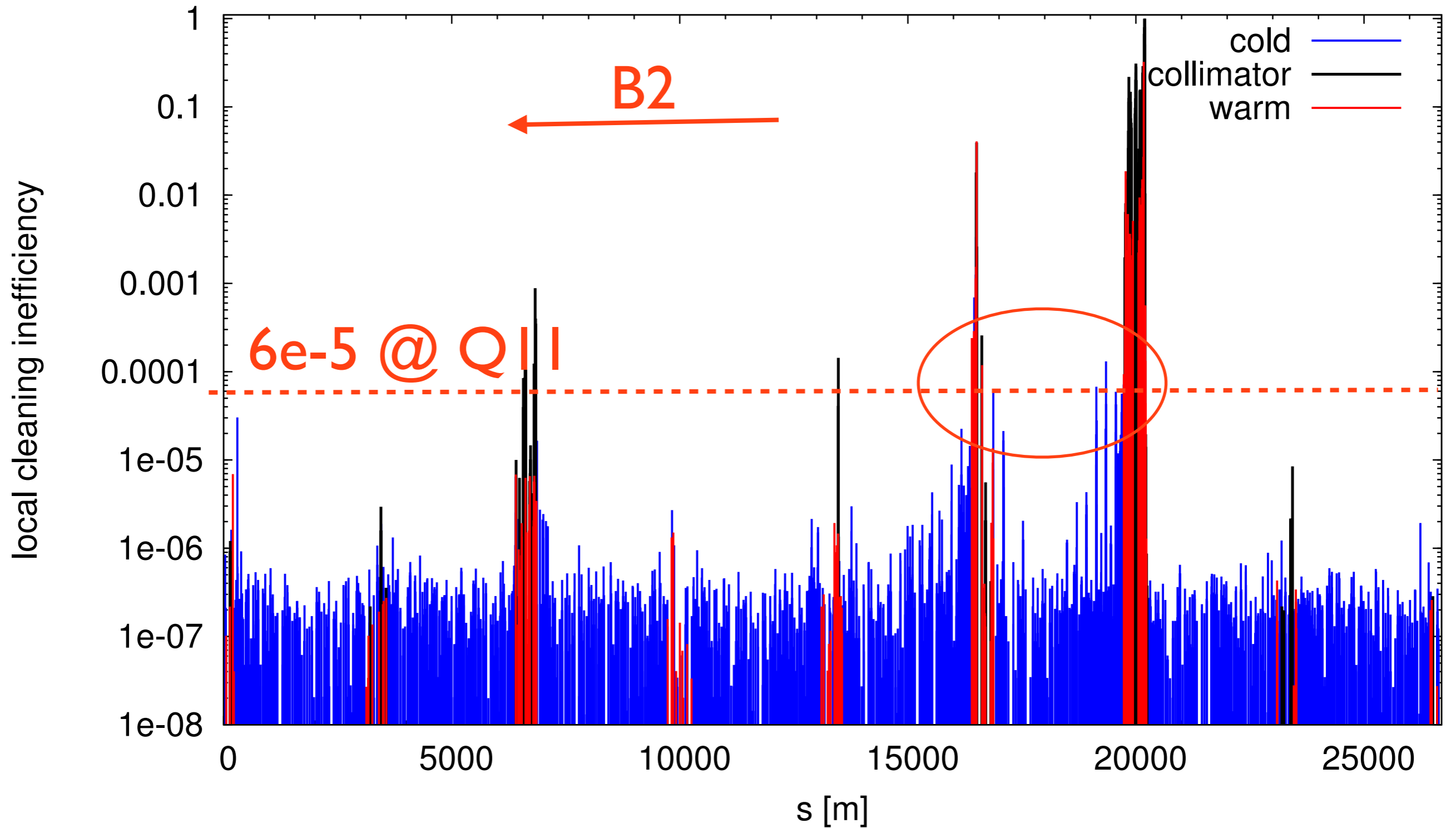
BI - Ver

betatron losses B1 450GeV ver norm IR7 (2012.07.01, 21:35:16)



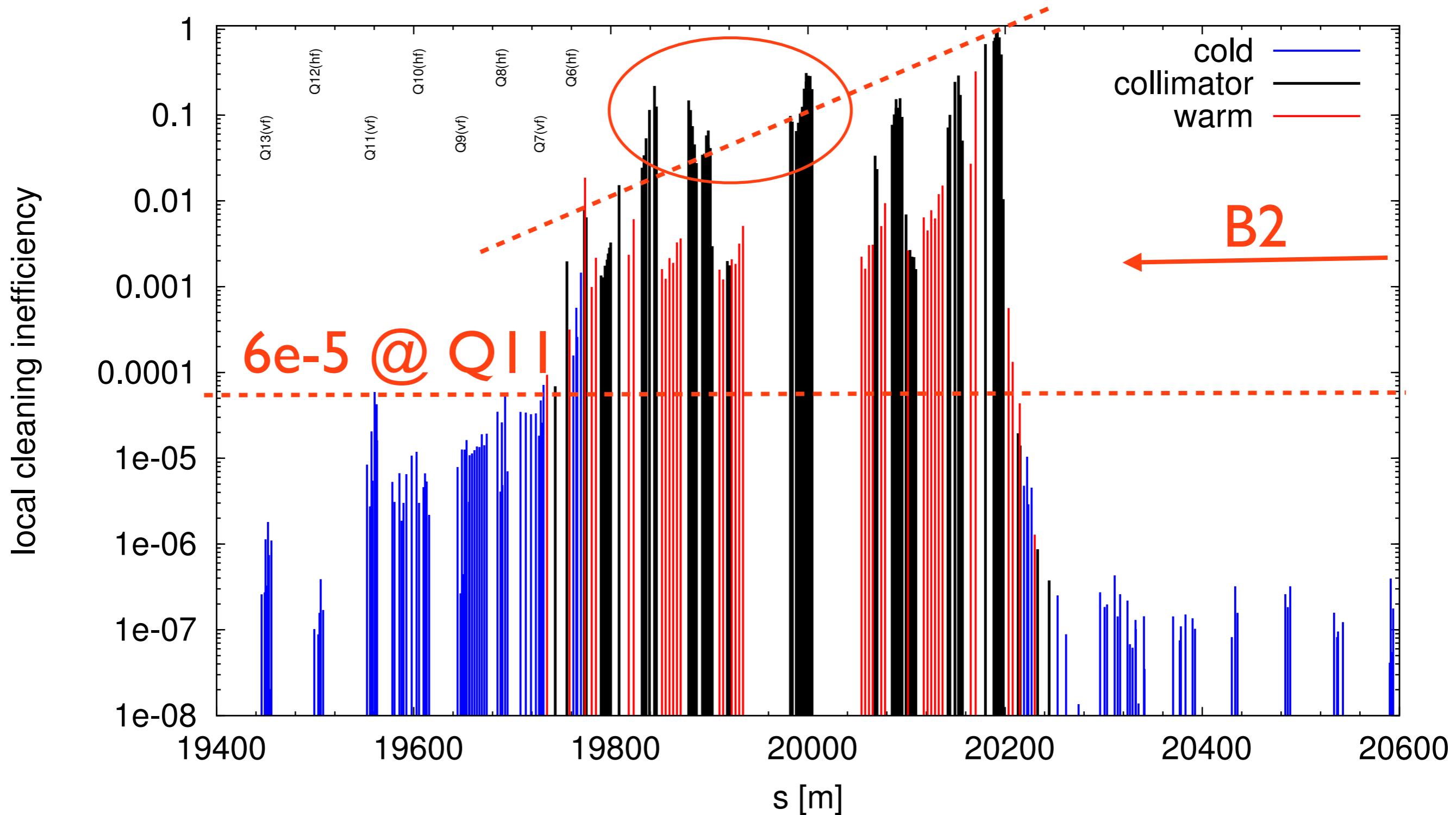
B2- Hor

betatron losses B2 450GeV hor norm F (2012.07.01, 21:36:33)



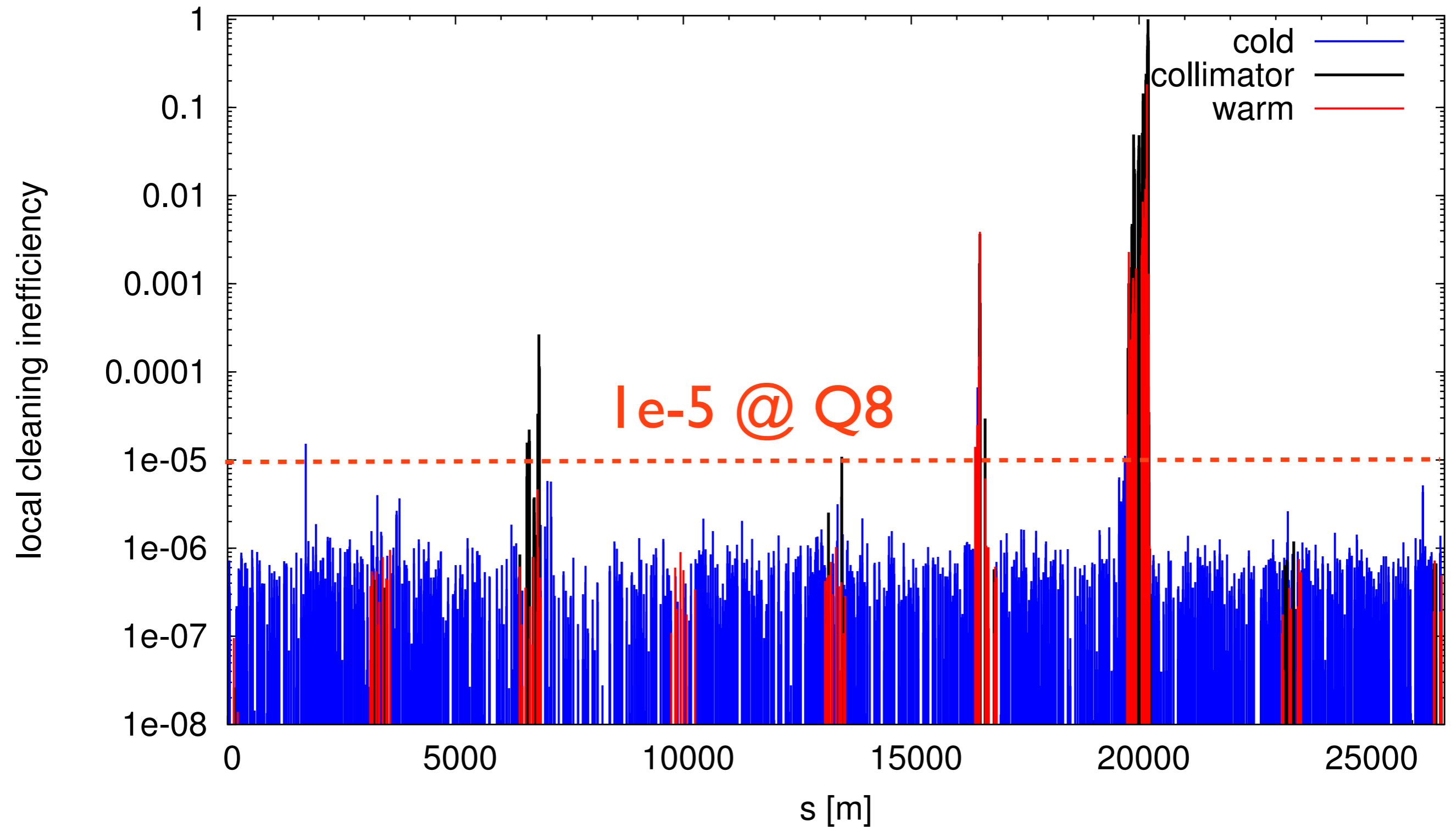
B2- Hor

betatron losses B2 450GeV hor norm IR7 (2012.07.01, 21:36:33)



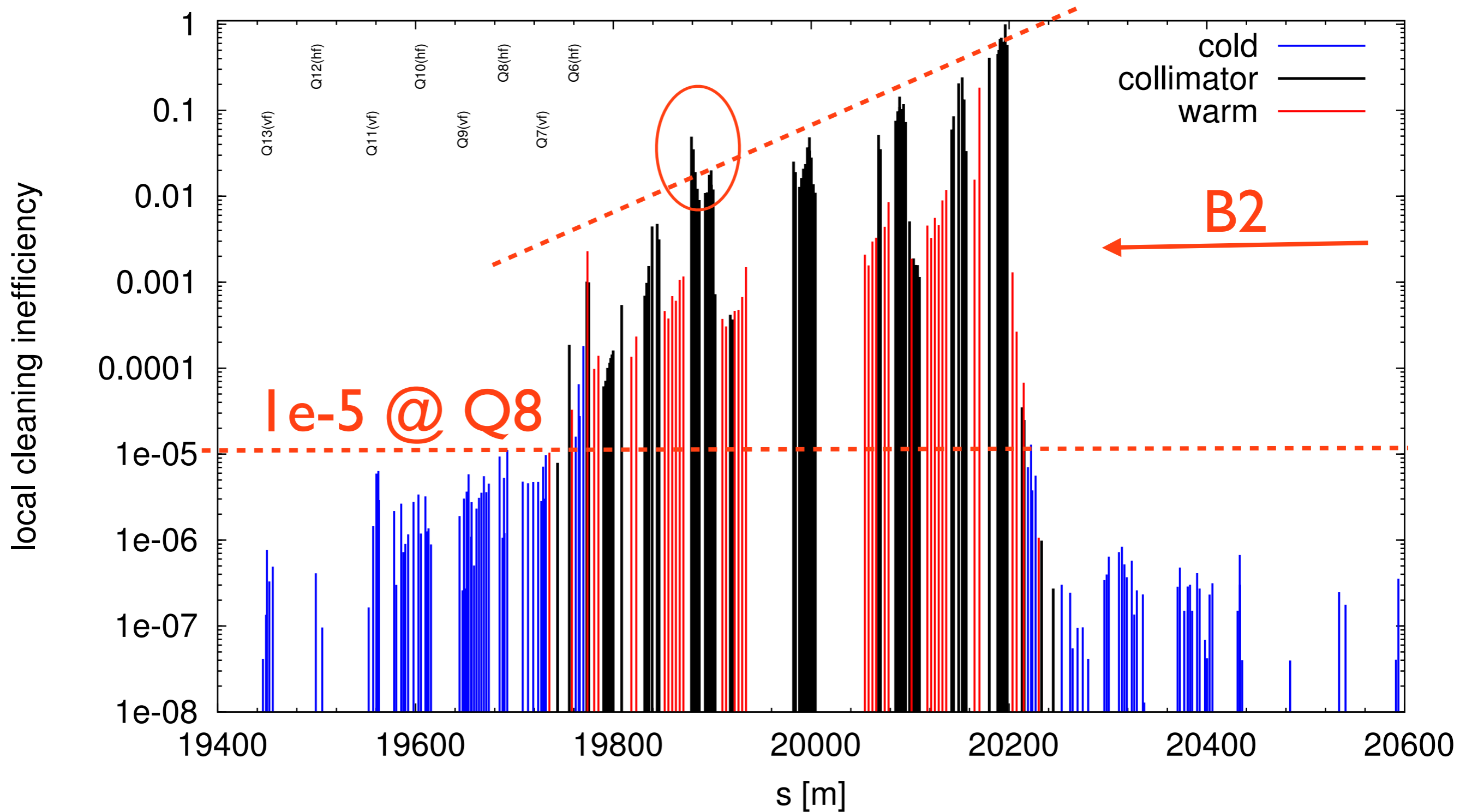
B2-Ver

betatron losses B2 450GeV ver norm F (2012.07.01, 21:37:33)



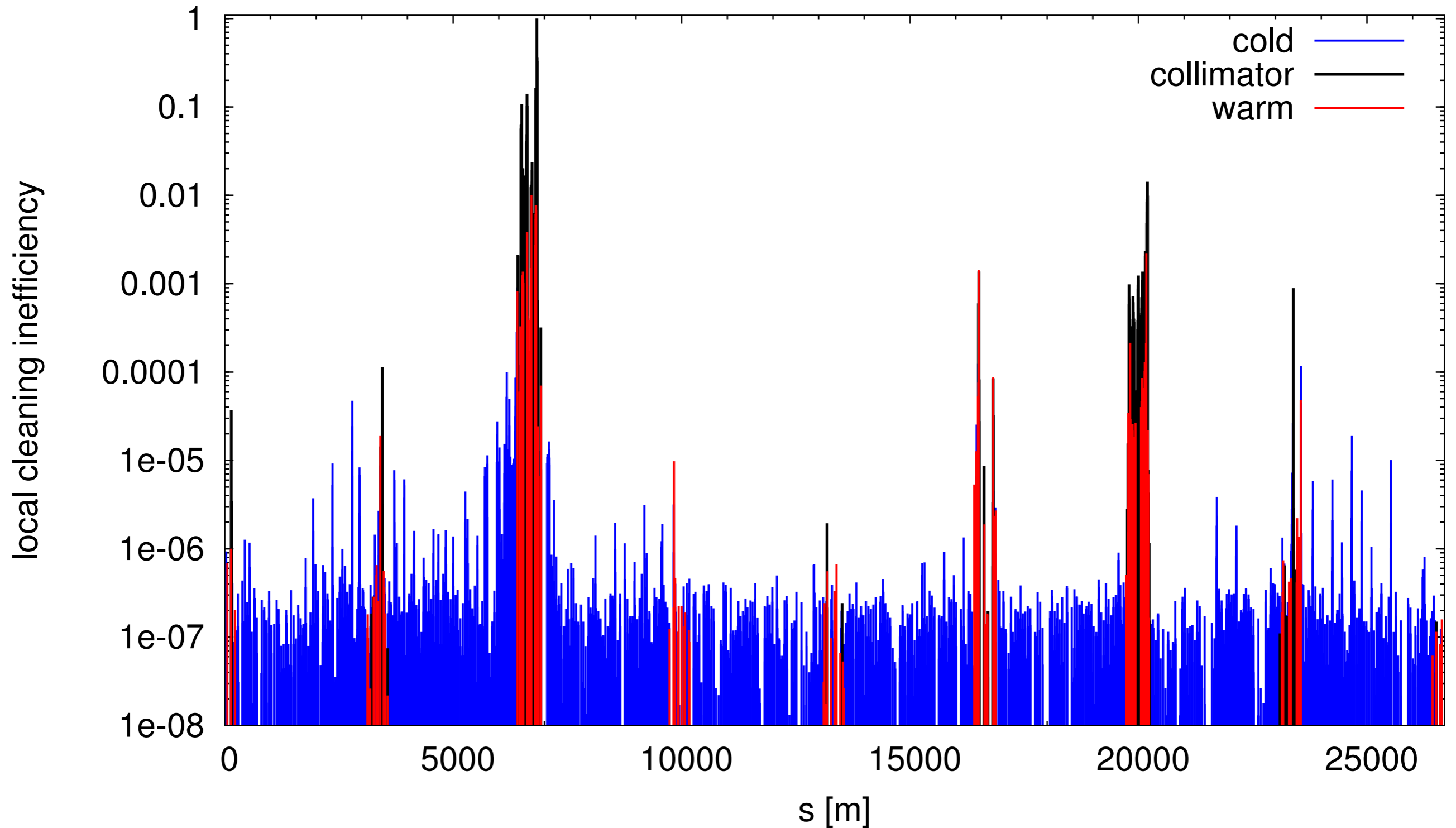
B2-Ver

betatron losses B2 450GeV ver norm IR7 (2012.07.01, 21:37:33)



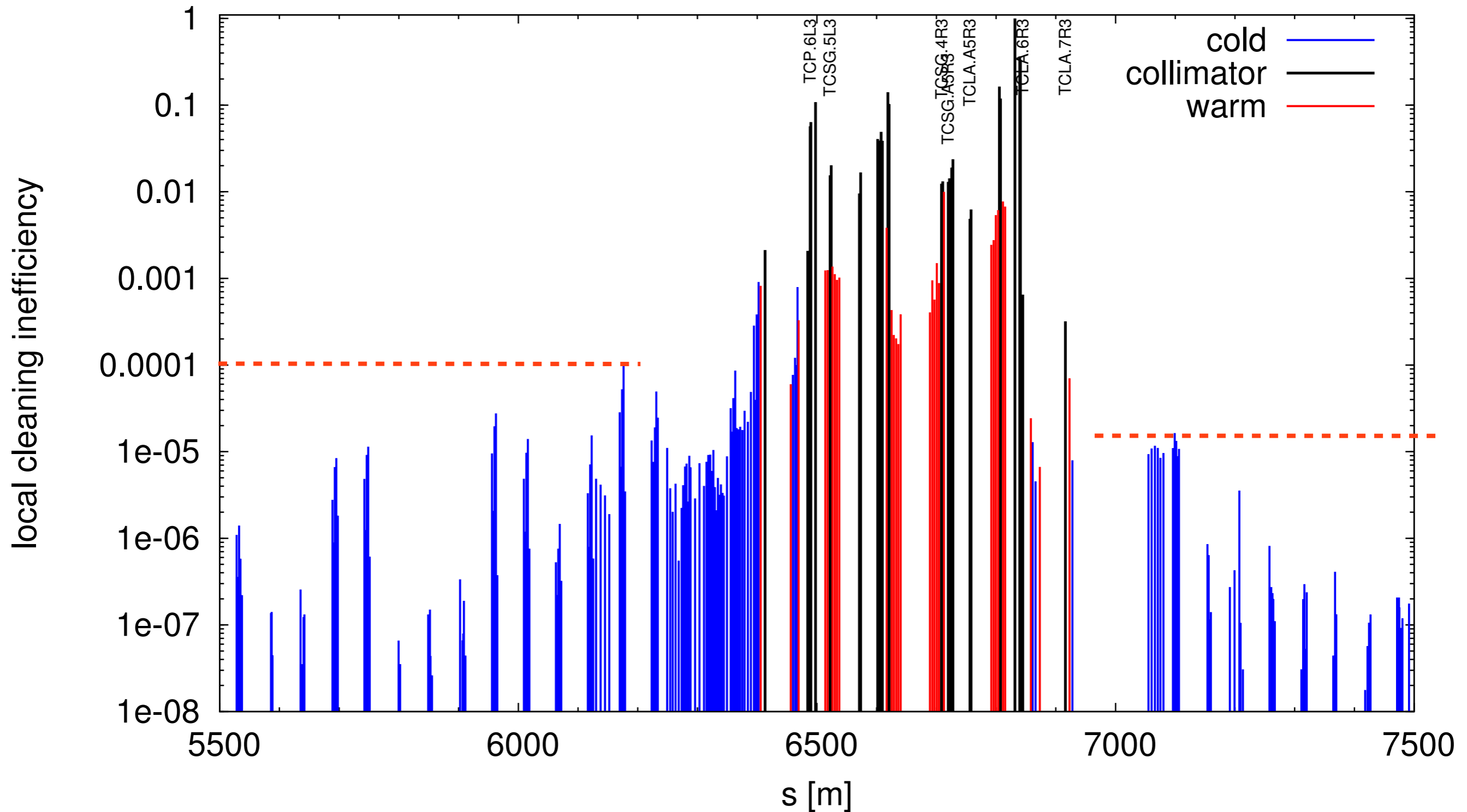
B1+B2 NEG off-momentum

momentum losses B1 and B2 450GeV neg offset norm F (2012.07.01, 21:40:31)



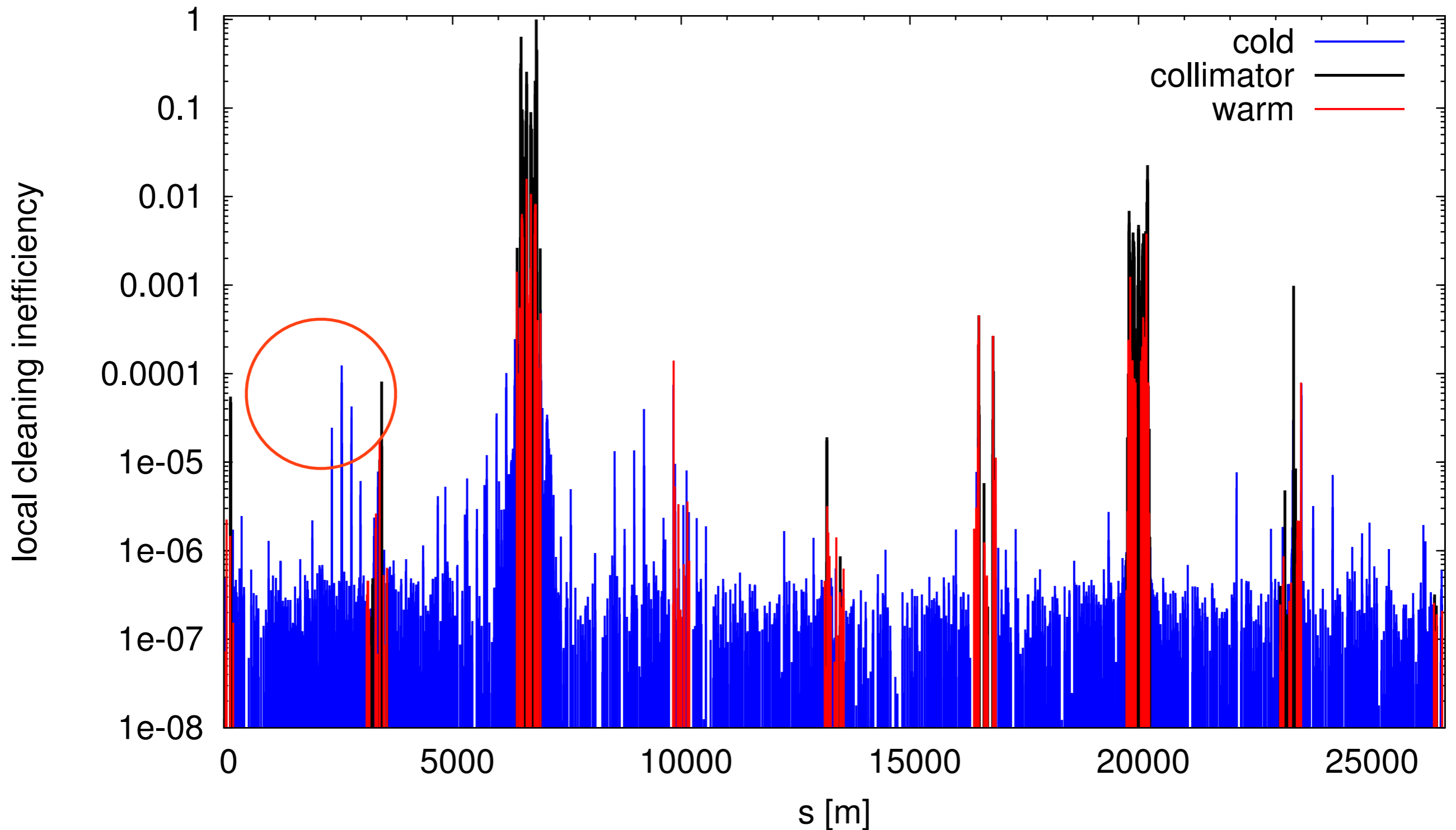
B1+B2 NEG off-momentum

momentum losses B1 and B2 450GeV neg offset norm IR3 (2012.07.01, 21:40:31)



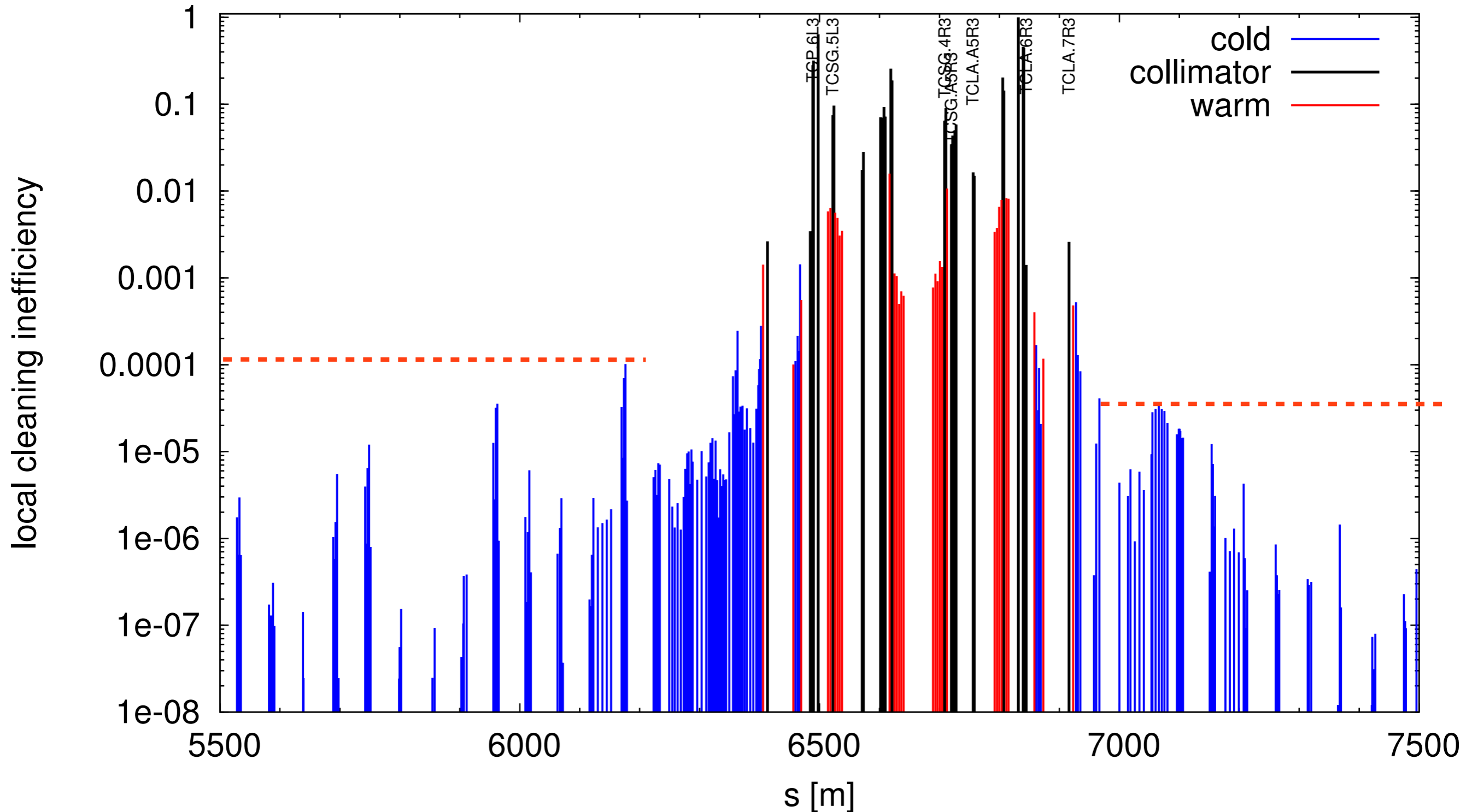
B1+B2 POS off-momentum

momentum losses B1 and B2 450GeV pos offset norm F (2012.07.01, 21:58:11)



B1+B2 POS off-momentum

momentum losses B1 and B2 450GeV pos offset norm IR3 (2012.07.01, 21:58:11)



Lossmaps 450GeV Inj. protection OUT

Expected losses slightly above cleaning inefficiency on IR6, IR7-8, IR8 due to larger beam size at 450GeV, still of the order of $1e-4$.

TCLA's IR7 slightly higher than 4TeV, expected as seen in previous lossmaps at injection.

Type	2012-07-01	Status
BI Hor	21:33:51	OK
BI Ver	21:35:16	OK
B2 Hor	21:36:33	OK
B2 Ver	21:37:33	OK
BI+B2 NEG	21:40:31	OK. Cleaning is ok, if possible, we would like to have a BI only NEG off-momentum lossmap at injection to confirm hierarchy.
BI+B2 POS	21:58:11	OK