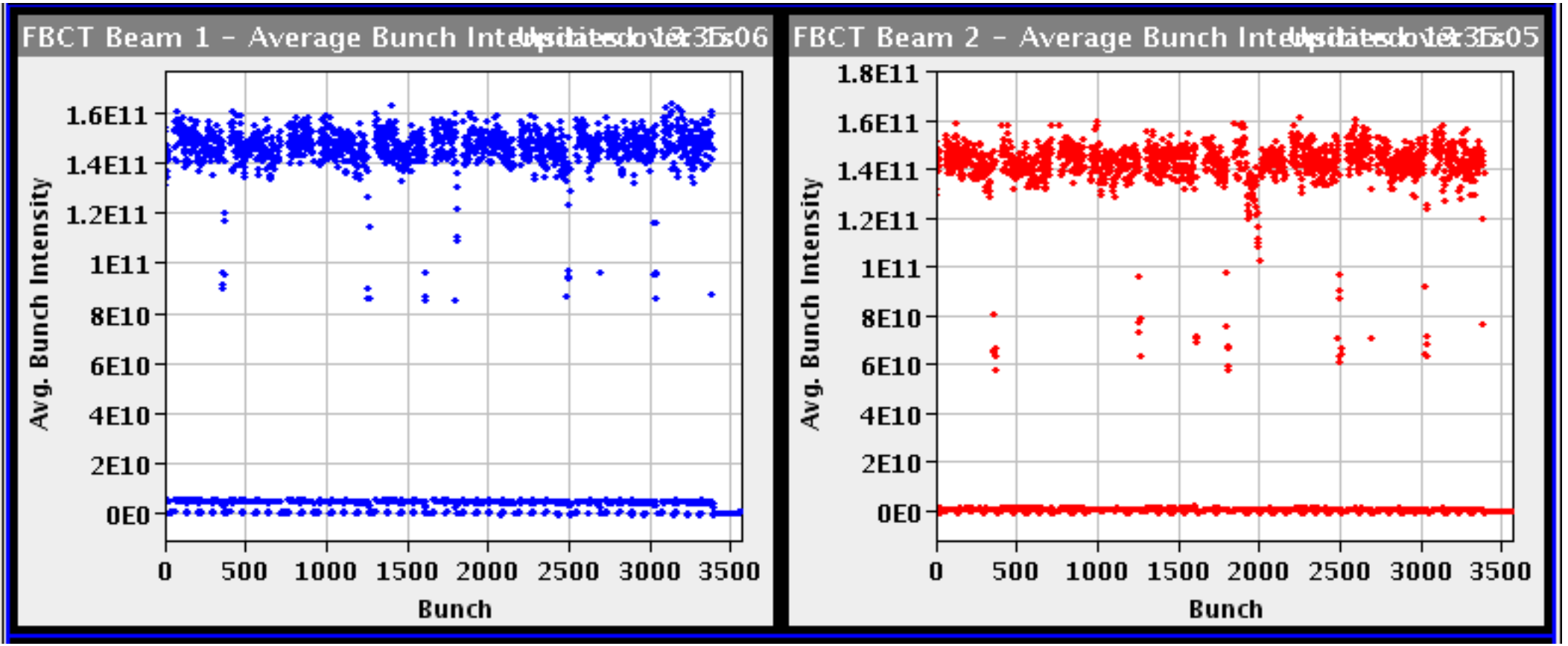
Snowflake

Fill …,2634,2635,2644, 2646, 2662, 2691, 2692

Change of filling scheme

Fill 2691

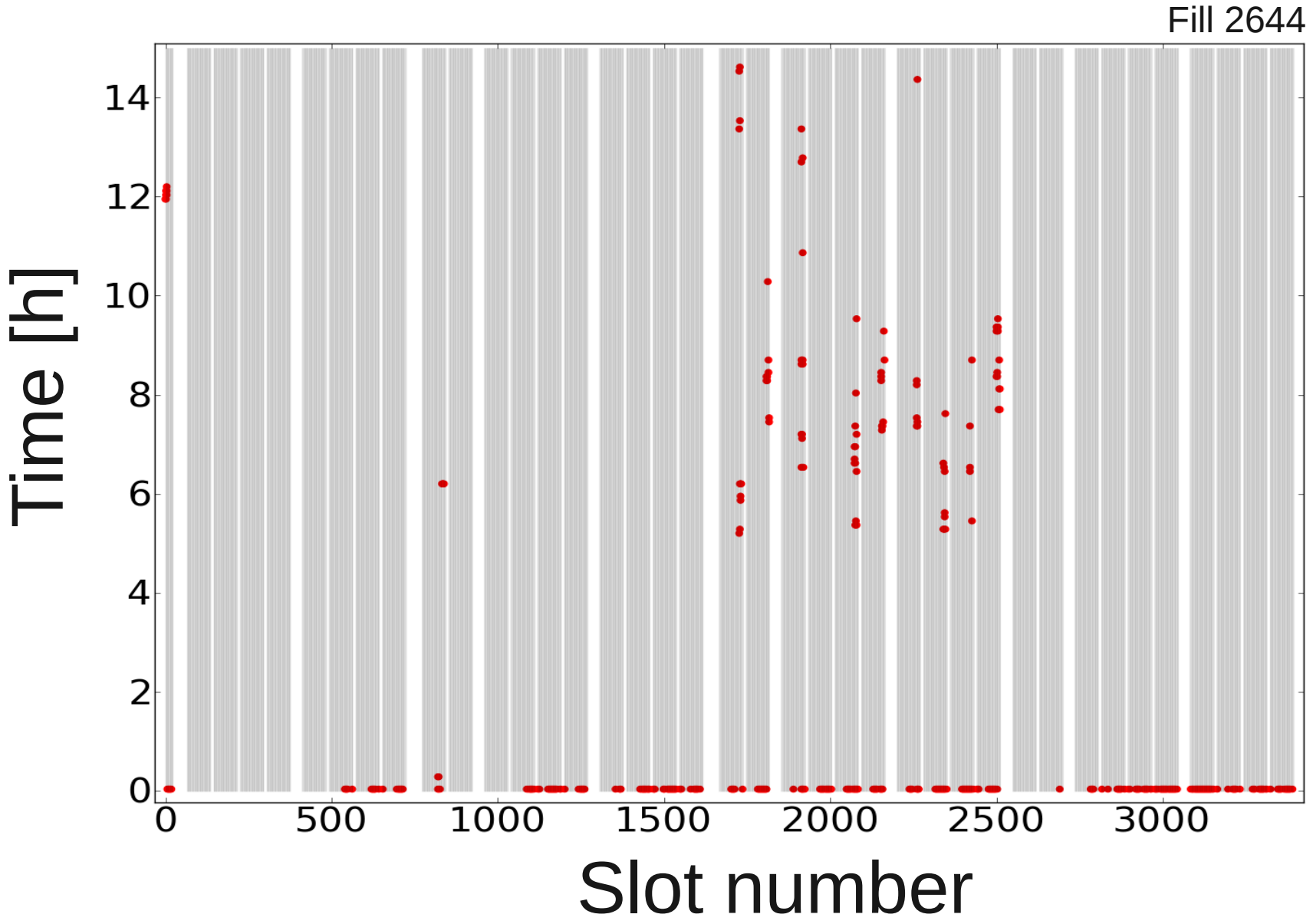


Snowflake

Fill 2634,2635,2644,2646

Concern only IP8 private bunches

Cured by removing them, experiments want them back

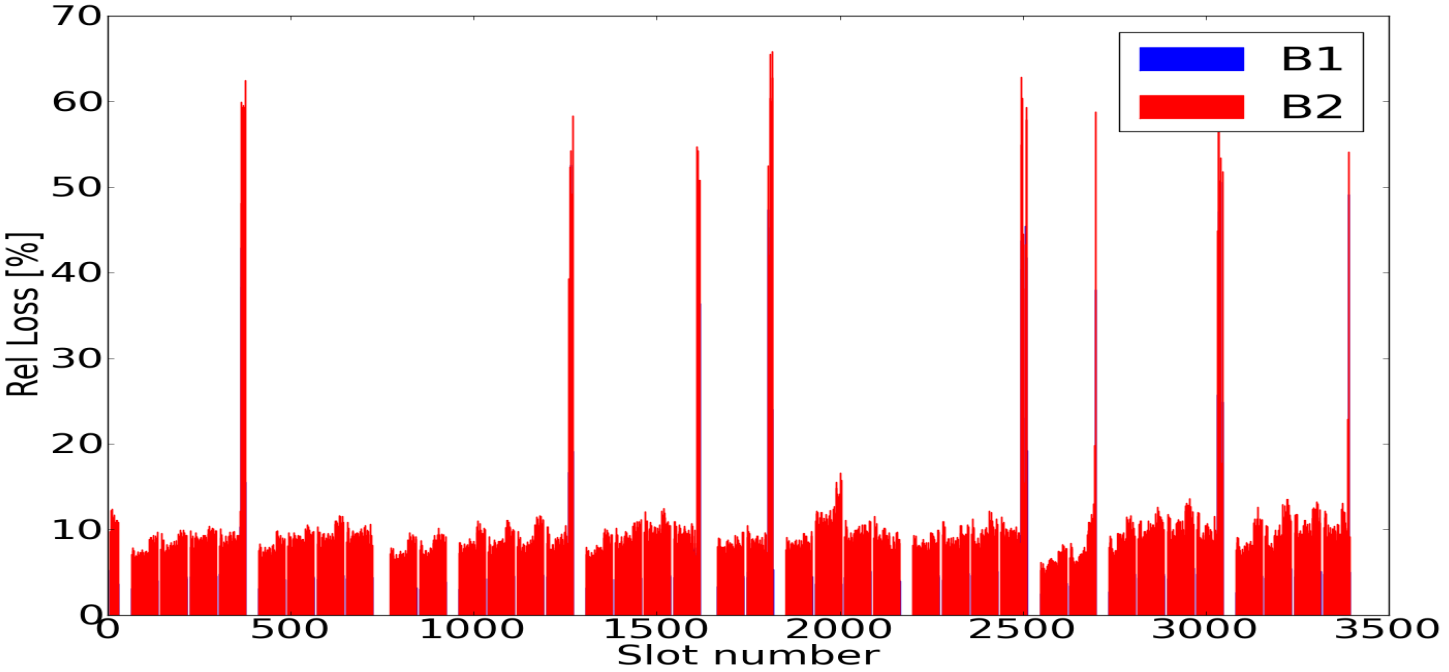


Snowflake

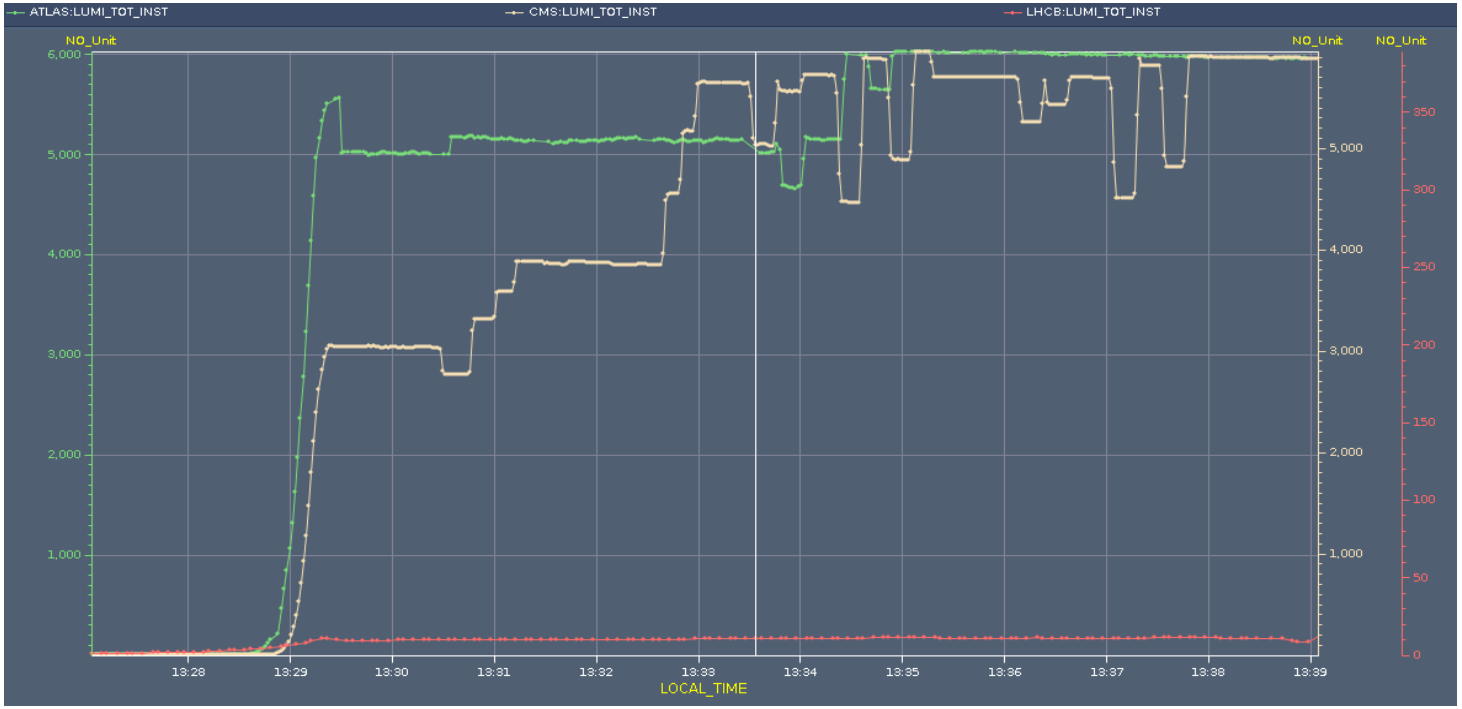
Fill 2662,2691

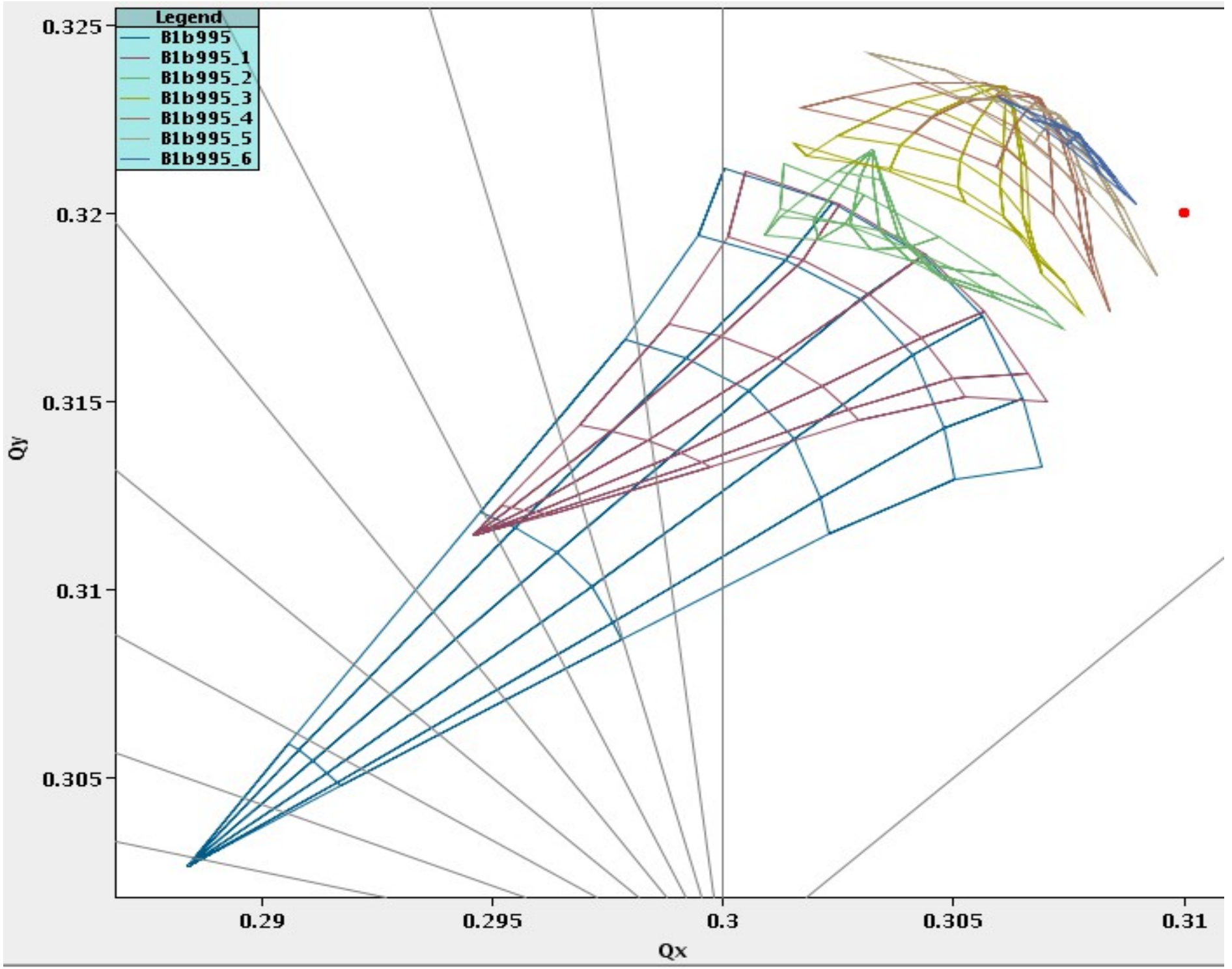
End of trains are getting unstable

Fill 2691



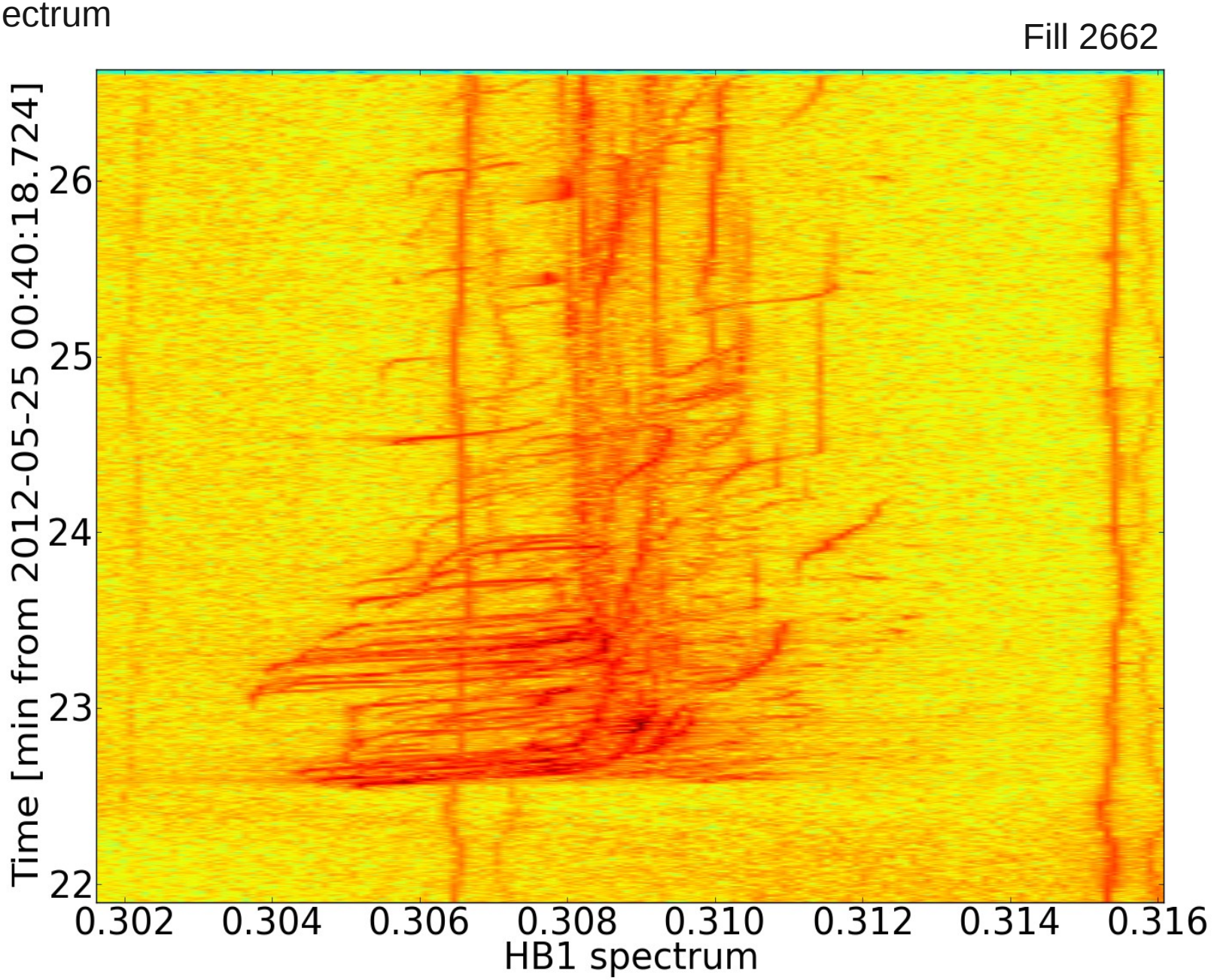
Lumi indicates an offset → tune spread similar to IP8 private bunches




Legend
B1b995
B1b995_1
B1b995_2
B1b995_3
B1b995_4
B1b995_5
B1b995_6
0.325
0.32
0.315
0.31
0.305
Qy
0.29
0.295
0.3
0.305
0.31
Qx

Snowflake

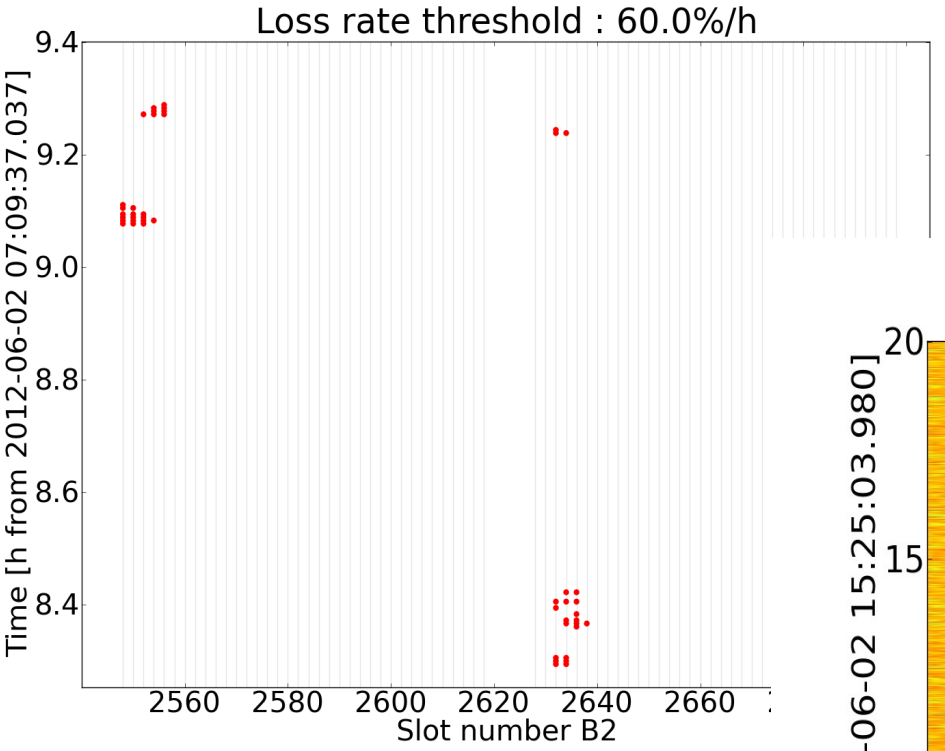
Typical spectrum

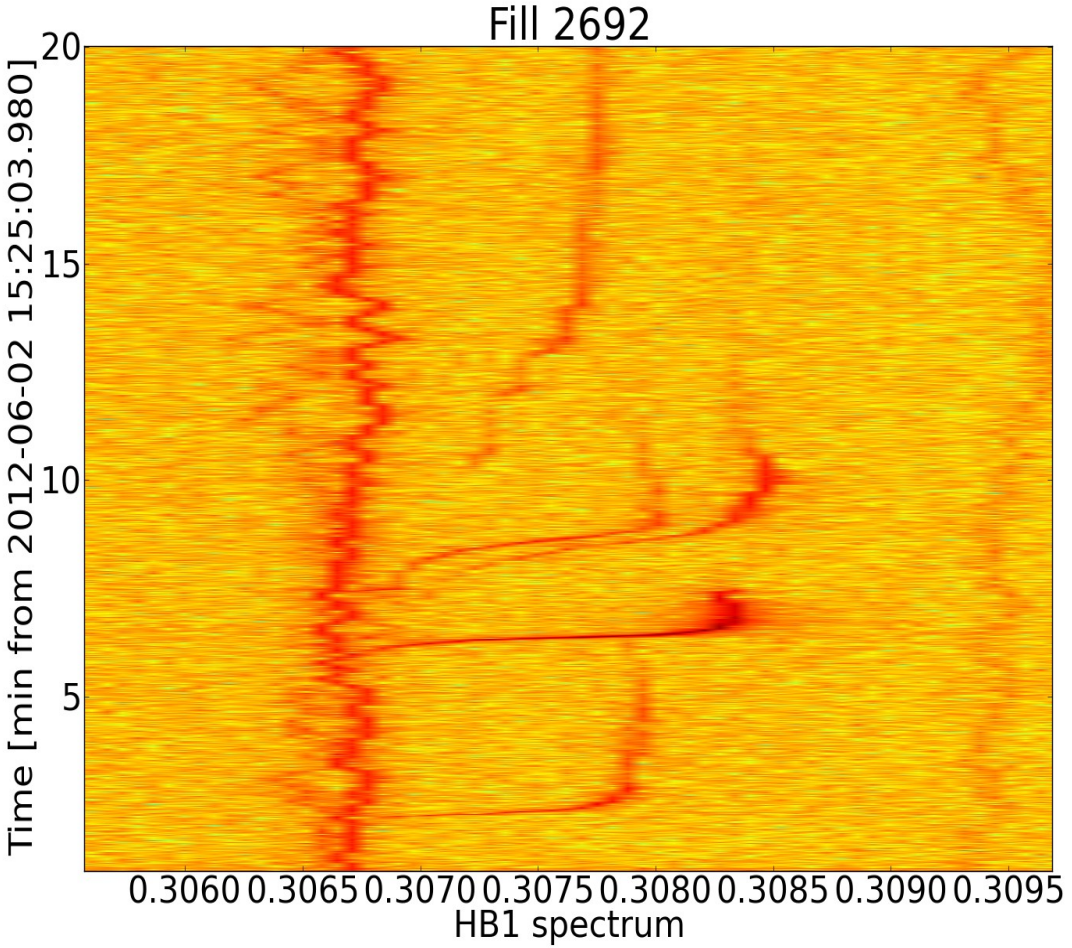


Snowflake

Fill 2692

Bunches colliding in only IP1 and 5 in both beams

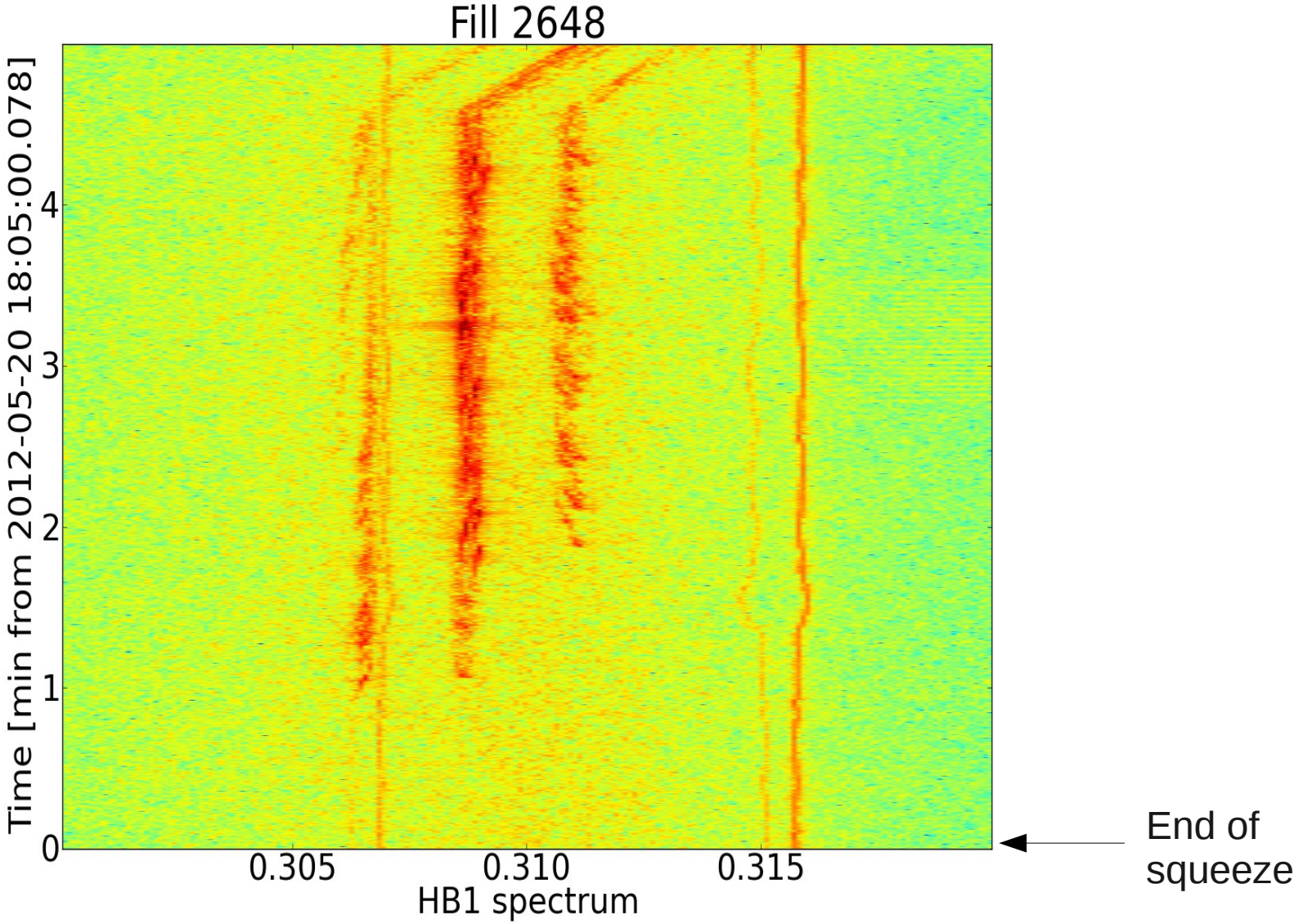




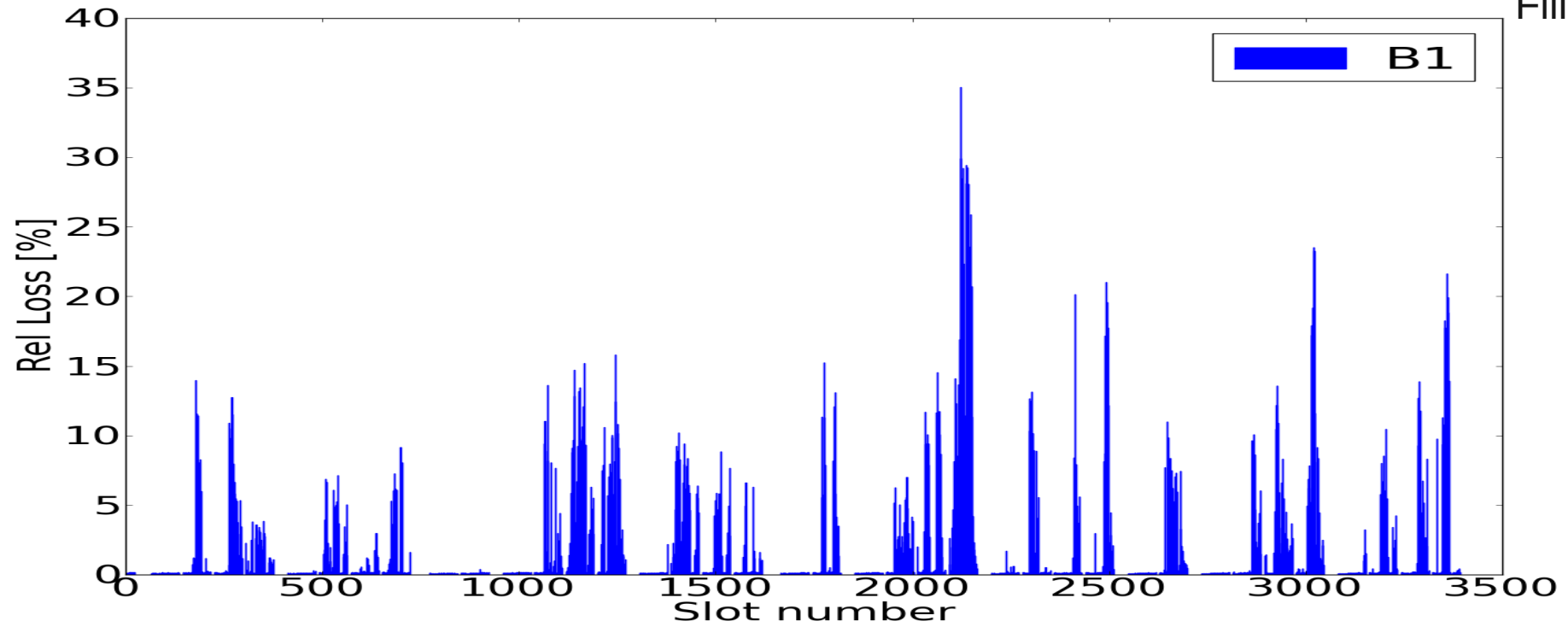
End of squeeze

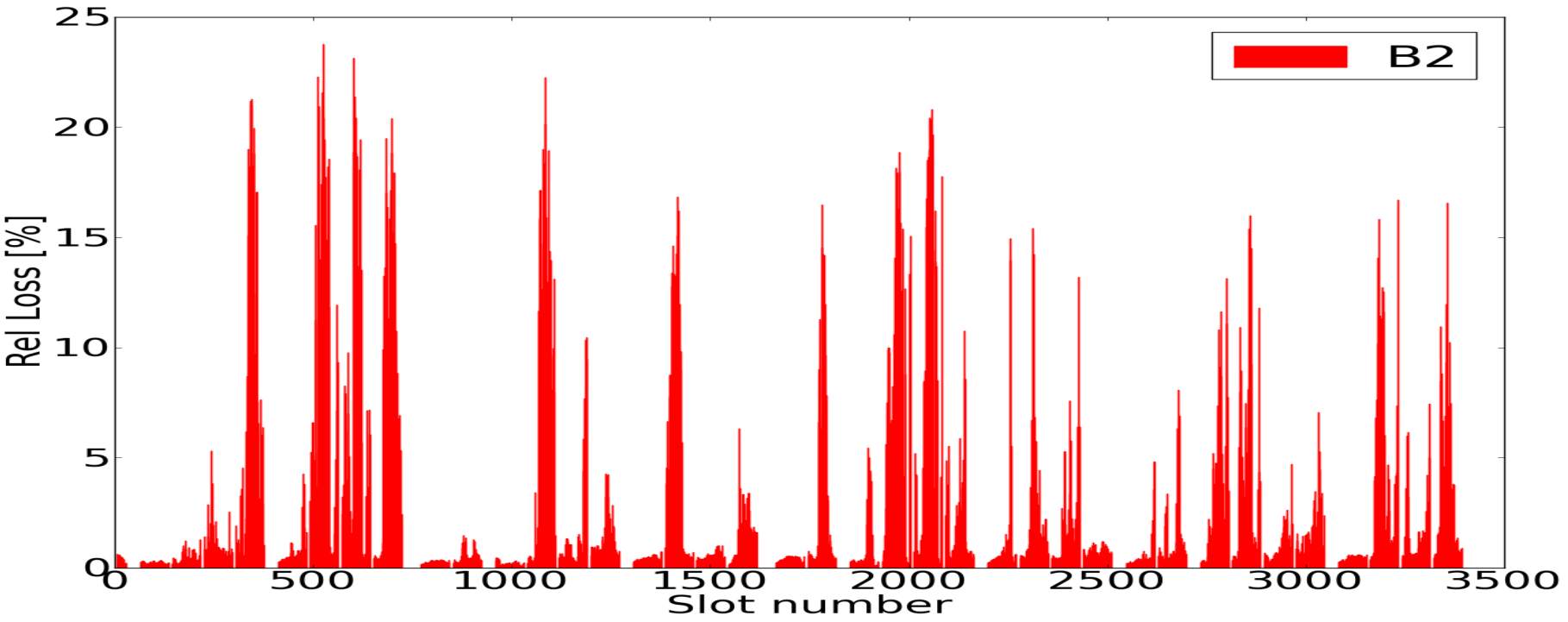
Fill 2634,2635,2648,2657,2668,2676

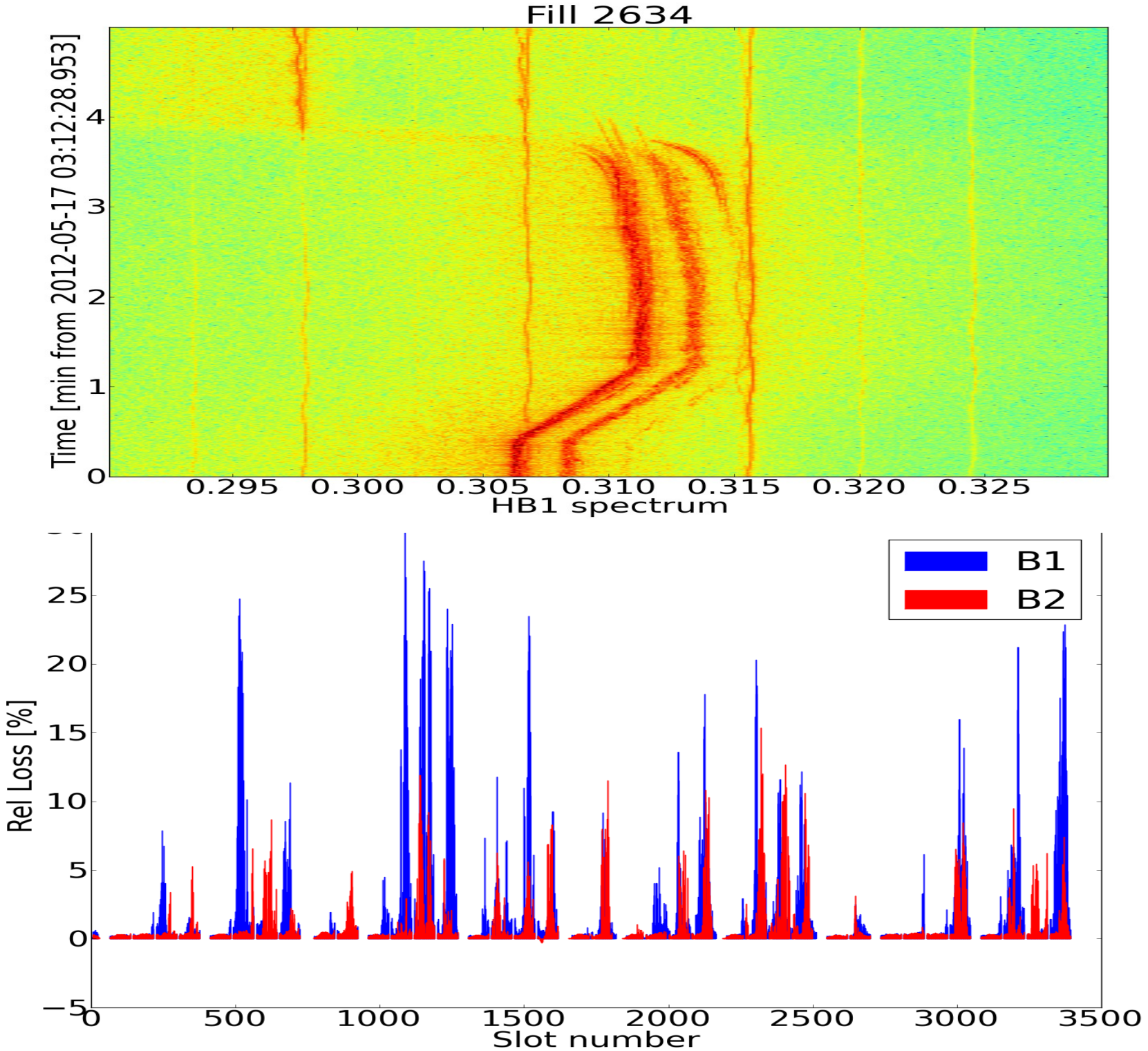
2 or 3 lines separated by ~Qs visible from end of squeeze to collision

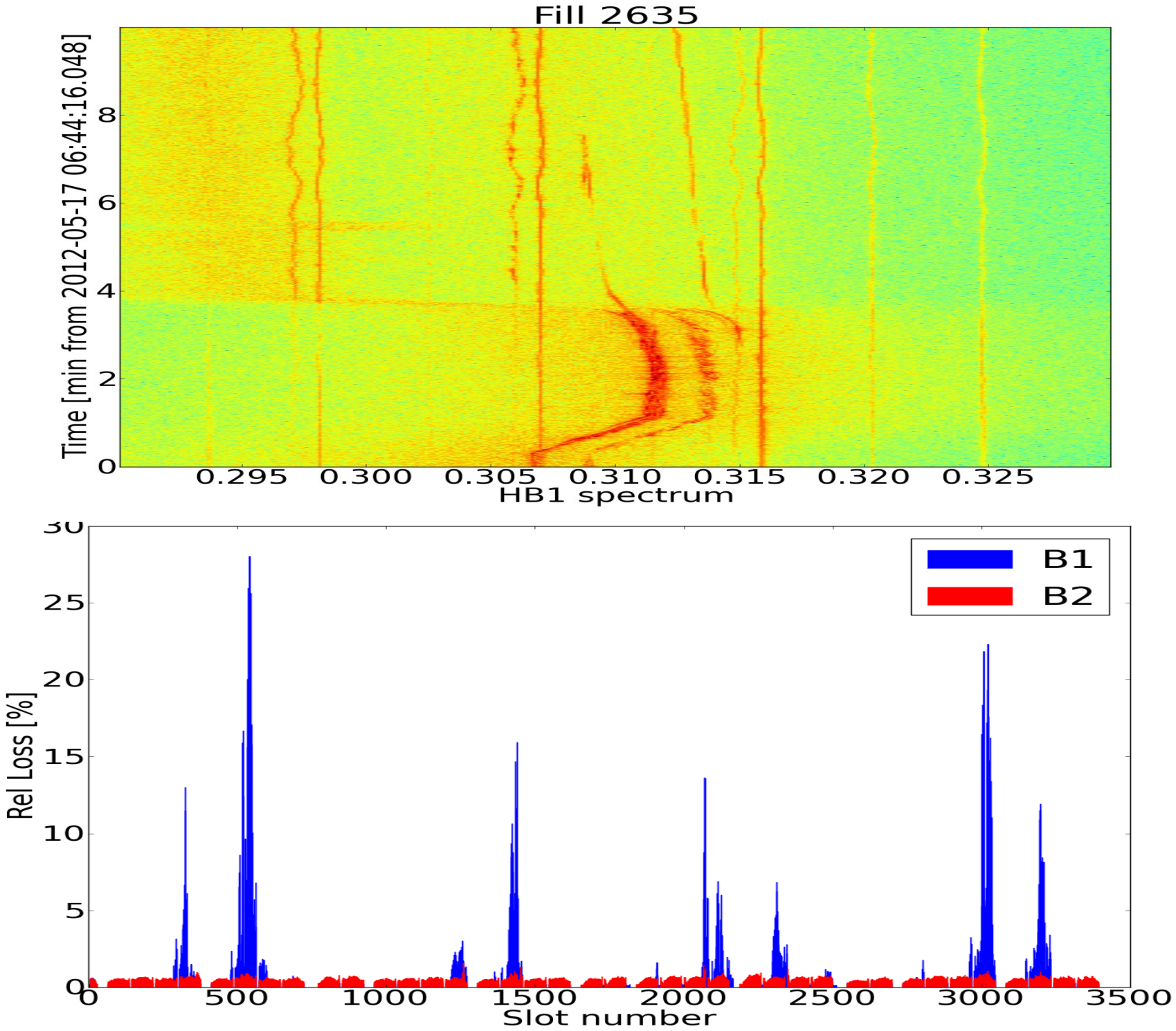


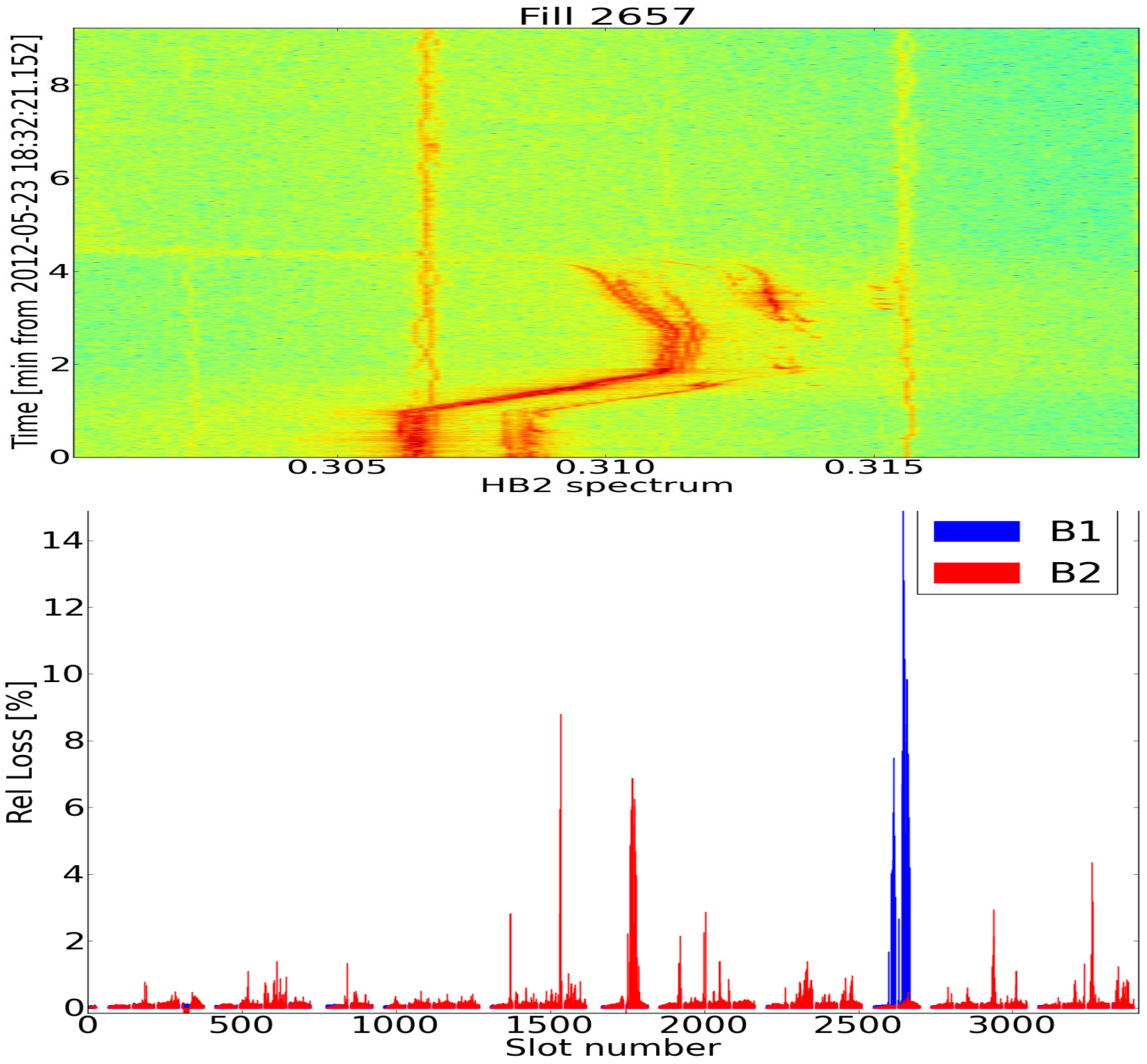
Fill 2648


B1
Rel Loss [%]
Slot number
0
5
10
15
20
25
30
35
40
0
500
1000
1500
2000
2500
3000
3500


B2
Rel Loss [%]
Slot number
0
5
10
15
20
25
0
500
1000
1500
2000
2500
3000
3500


Fill 2634
Time [min from 2012-05-17 03:12:28.953]
0
1
2
3
4
0.295
0.300
0.305
0.310
0.315
0.320
0.325
HB1 spectrum
B1
B2
Rel Loss [%]
25
20
15
10
5
0
−5
0
500
1000
1500
2000
2500
3000
3500
Slot number


Fill 2635
Time [min from 2012-05-17 06:44:16.048]
0
2
4
6
8
0.295
0.300
0.305
0.310
0.315
0.320
0.325
HB1 spectrum
B1
B2
Rel Loss [%]
0
5
10
15
20
25
30
0
500
1000
1500
2000
2500
3000
3500
Slot number


Fill 2657
Time [min from 2012-05-23 18:32:21.152]
0
2
4
6
8
0.305
0.310
0.315
HB2 spectrum
B1
B2
Rel Loss [%]
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
2500
3000
Slot number