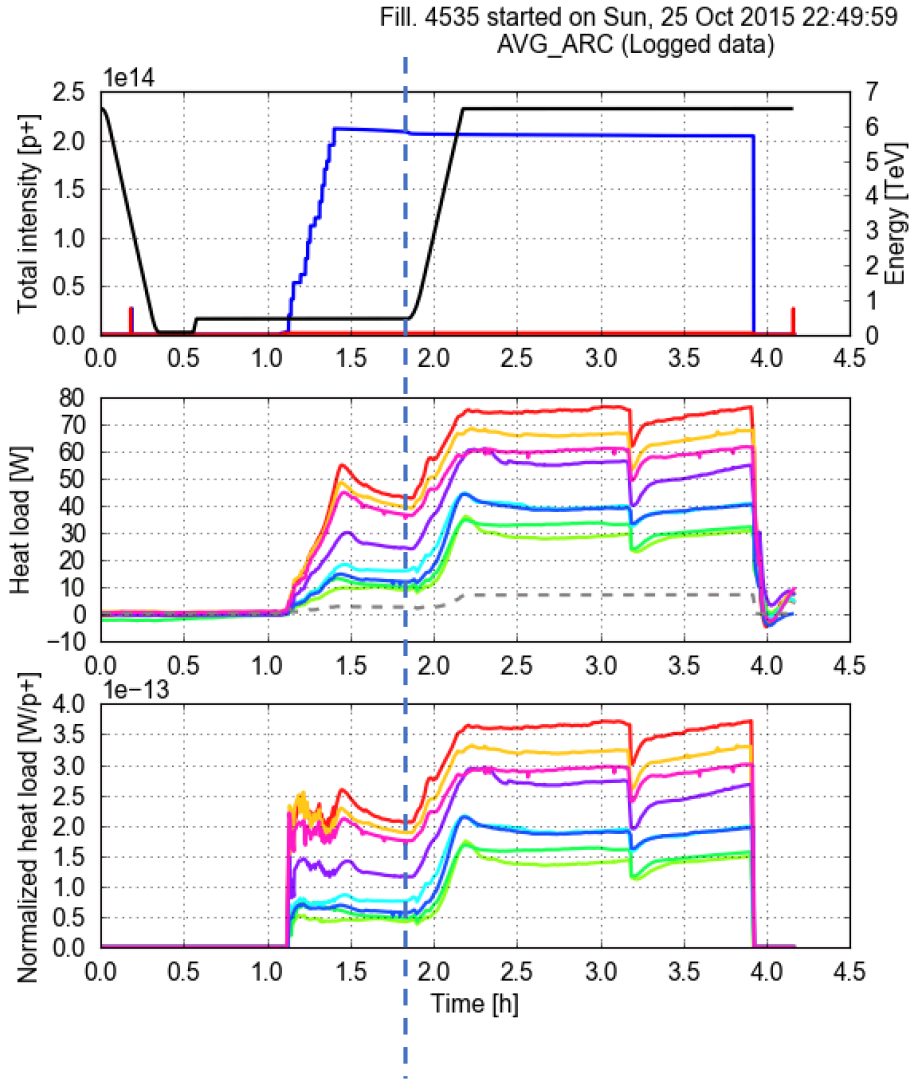
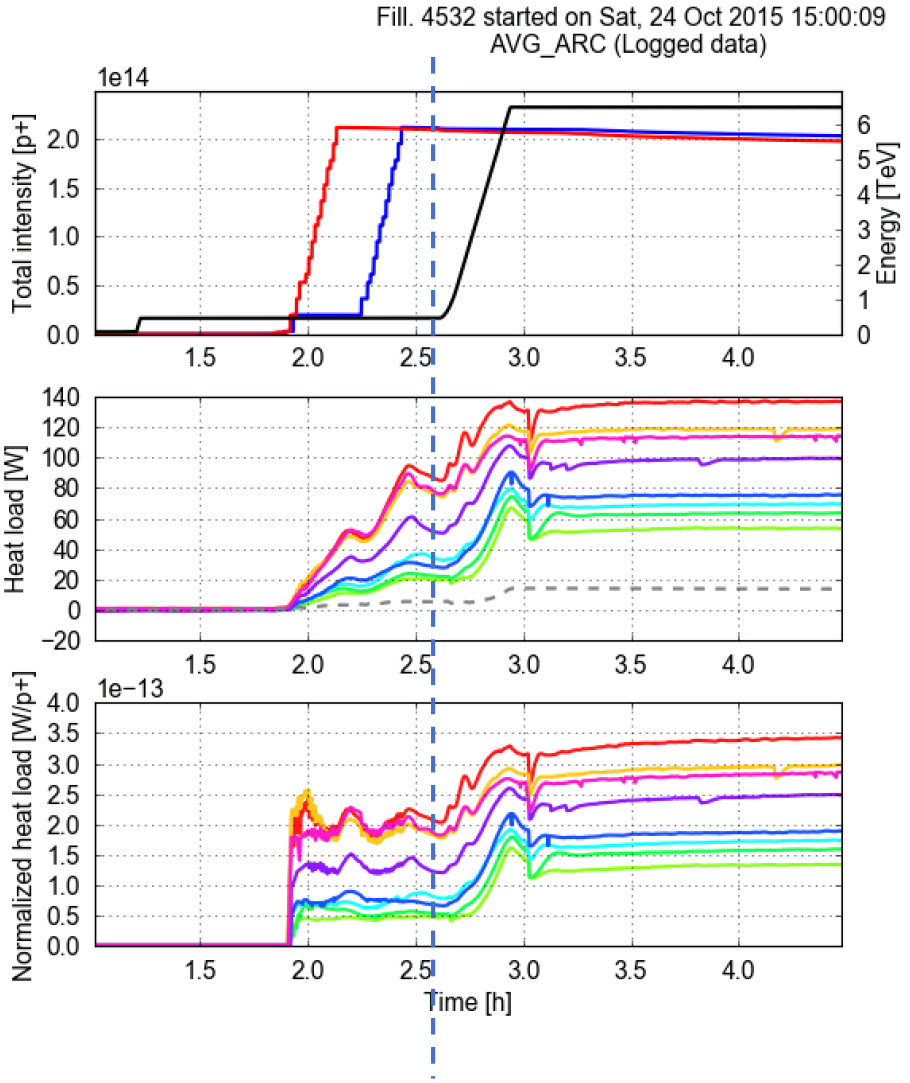
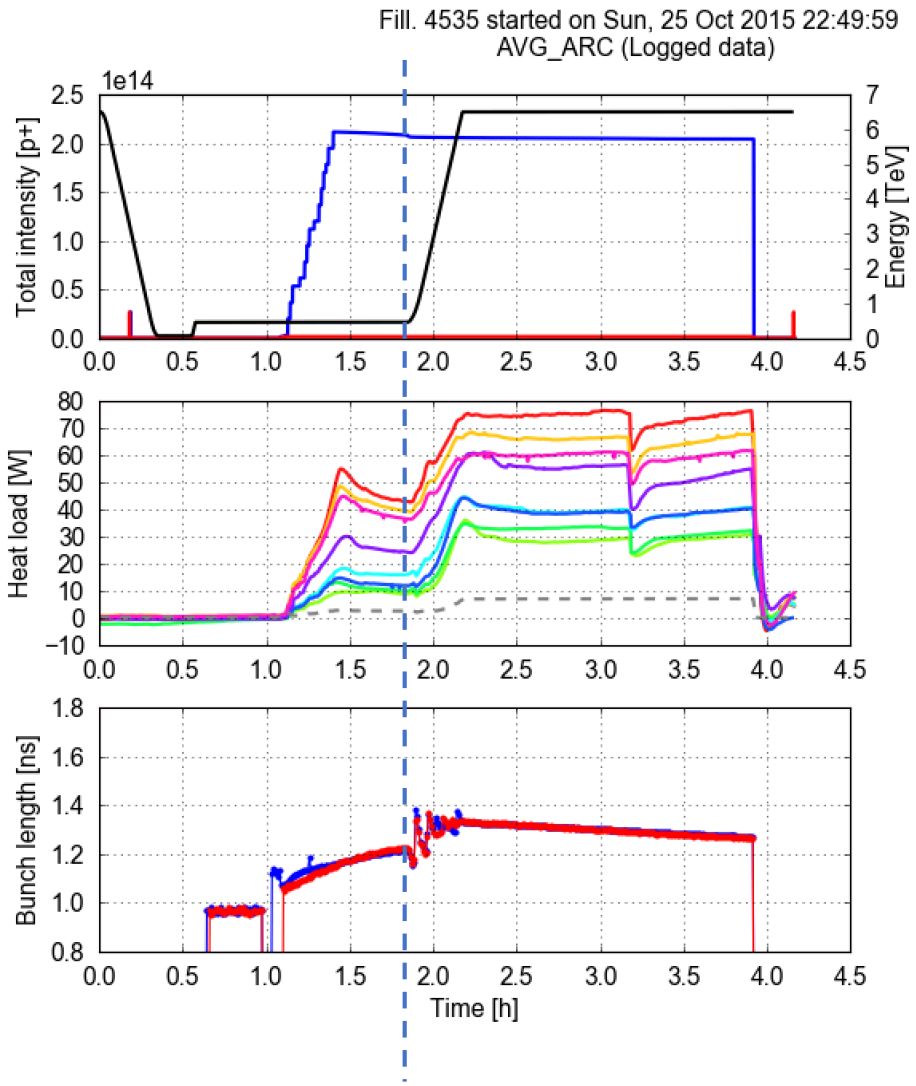
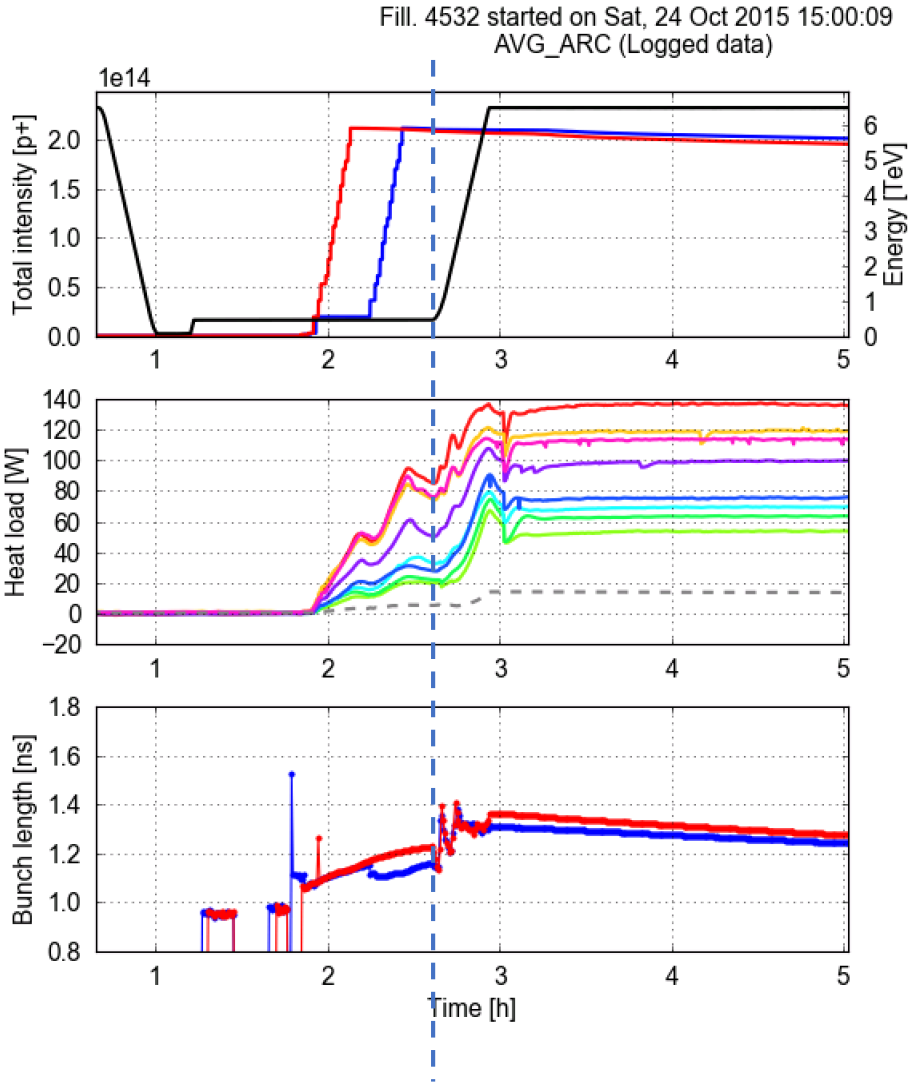
2015
450 GeV

Comparison made with ~1800b in trains of 72b.

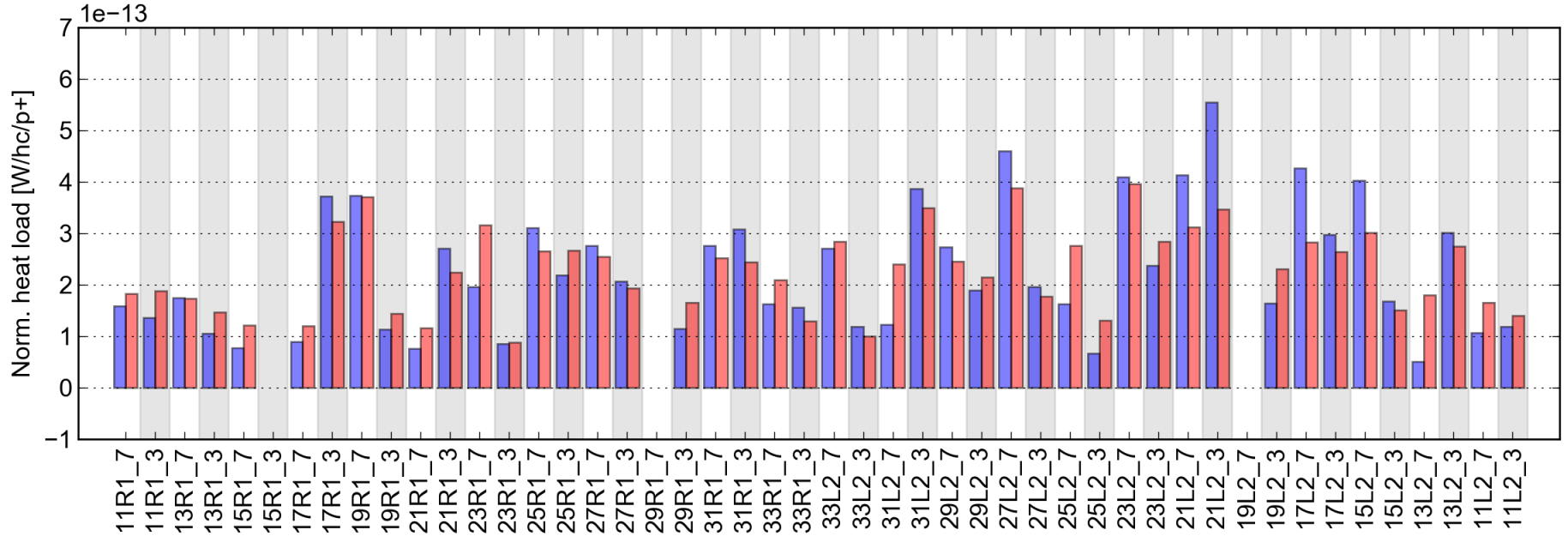

Fill. 4535 started on Sun, 25 Oct 2015 22:49:59
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

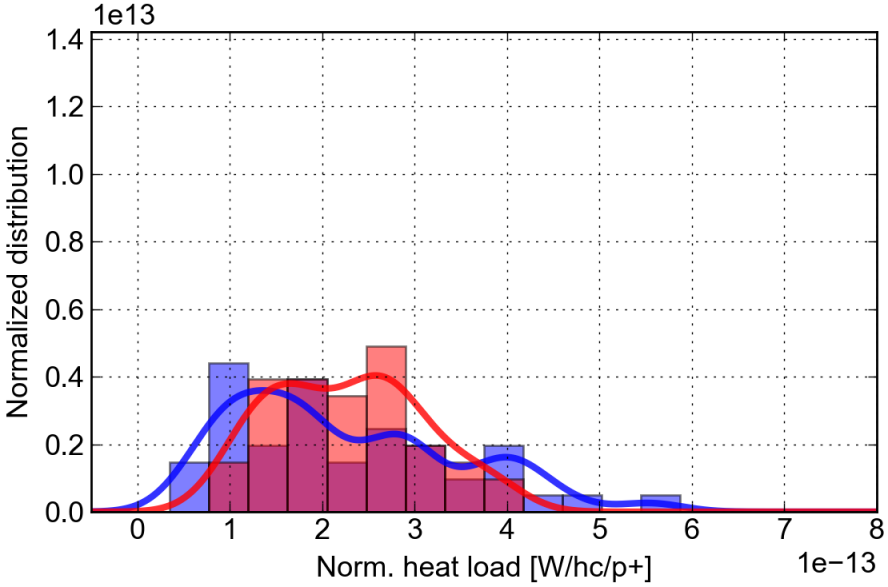

Fill. 4532 started on Sat, 24 Oct 2015 15:00:09
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 4535 started on Sun, 25 Oct 2015 22:49:59
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 4532 started on Sat, 24 Oct 2015 15:00:09
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

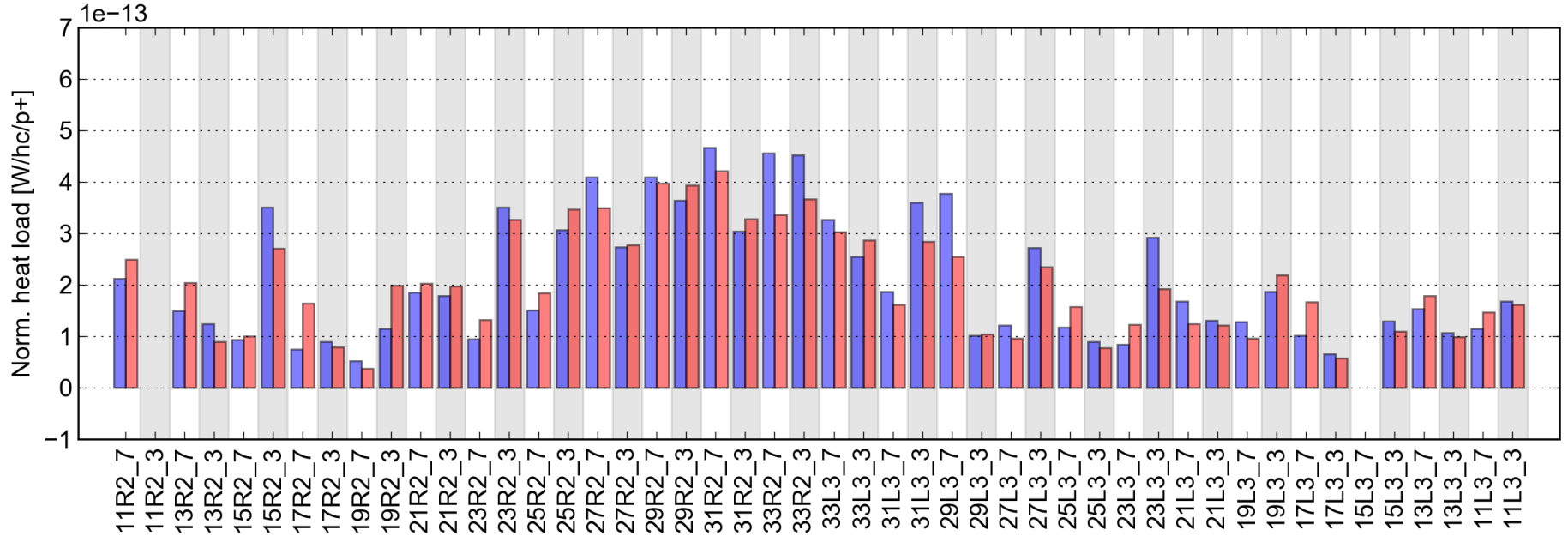
Sector 12, 48 cells, recalc. values

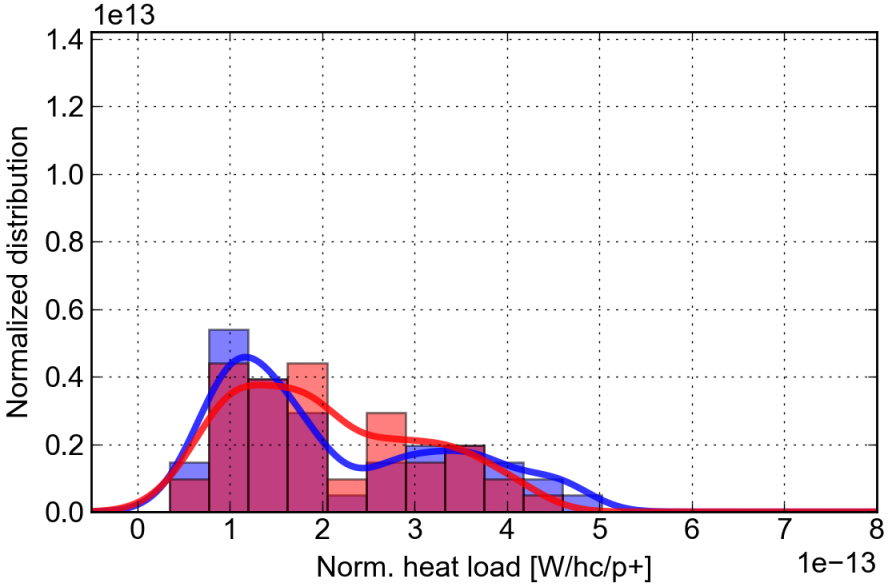




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S12 (avg) [W]	47.61	95.53
H.L. S12 (std) [W]	25.77	33.77
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

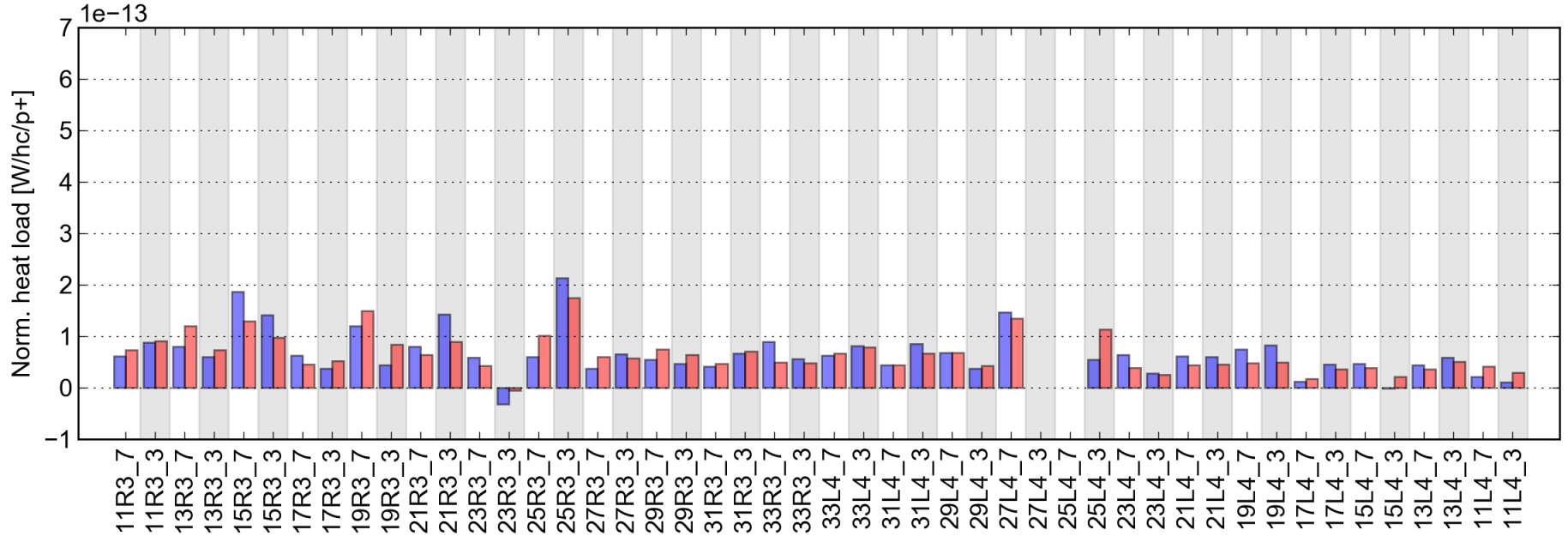
Sector 23, 48 cells, recalc. values

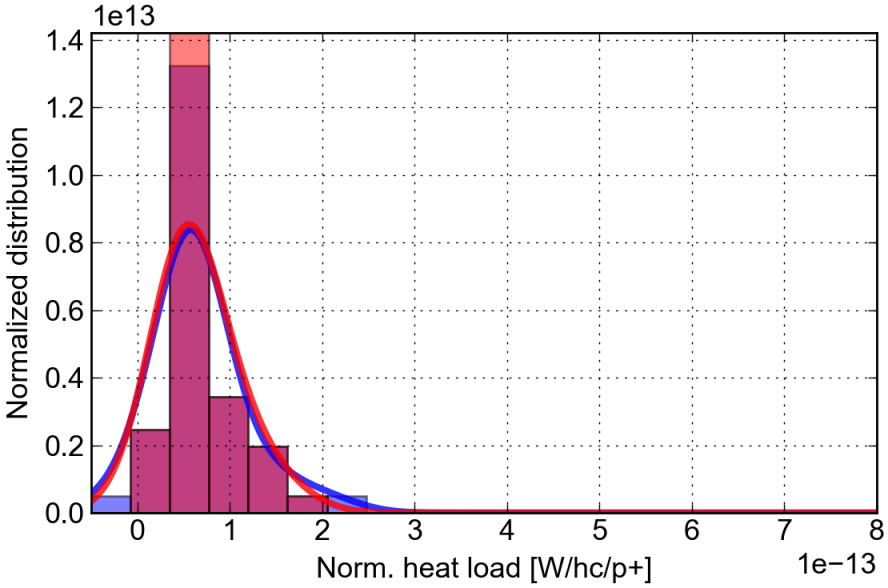




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S23 (avg) [W]	44.48	85.98
H.L. S23 (std) [W]	25.50	42.46
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

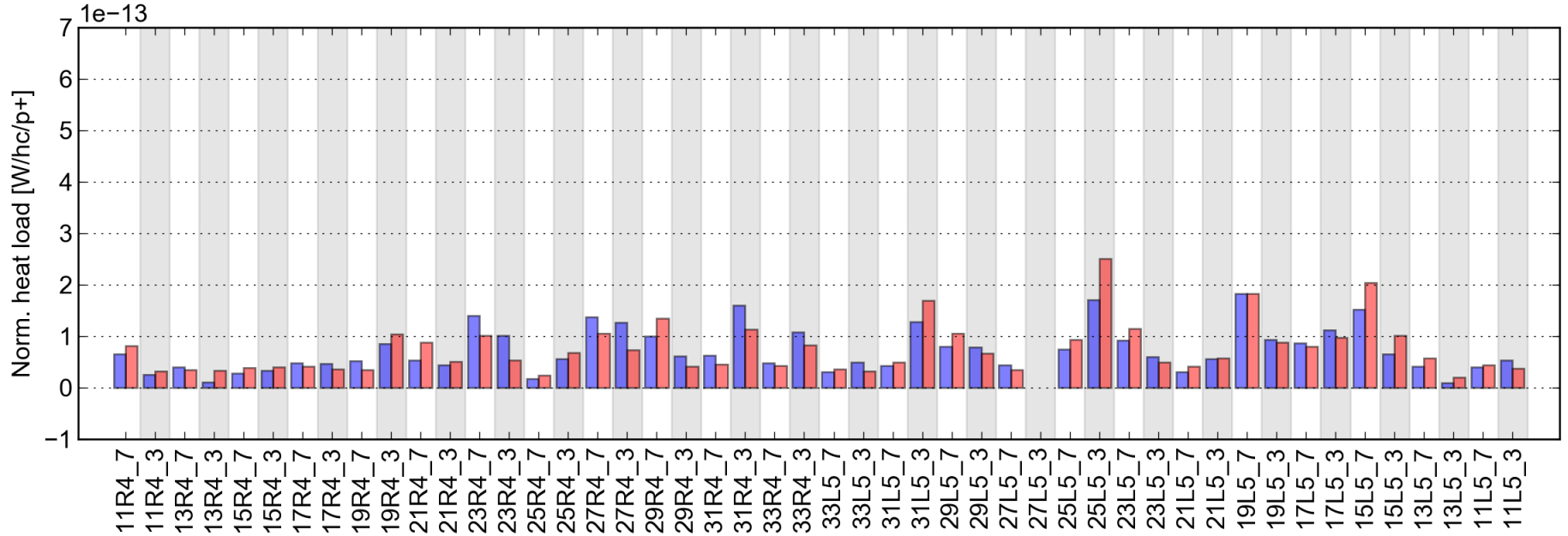
Sector 34, 48 cells, recalc. values

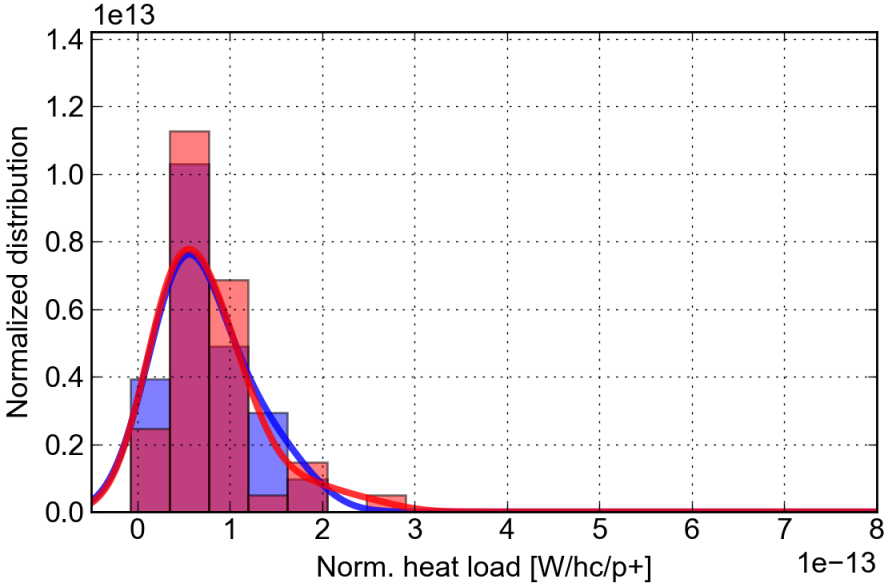




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S34 (avg) [W]	14.07	27.45
H.L. S34 (std) [W]	9.29	14.89
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

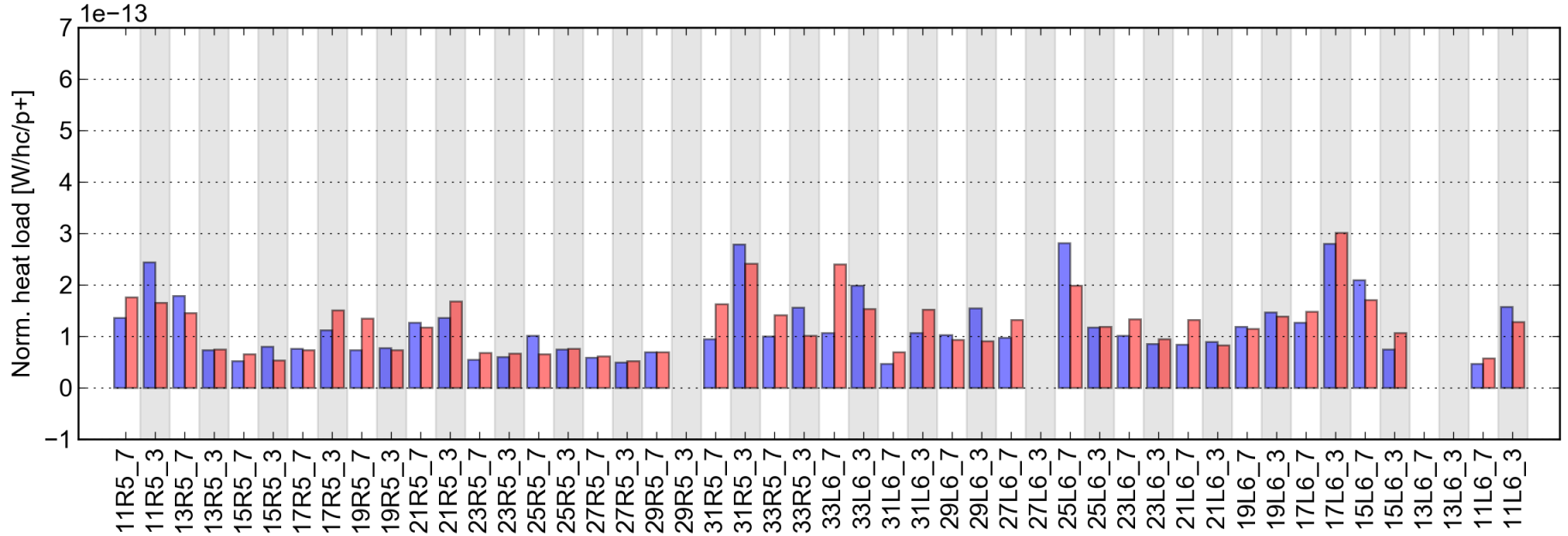
Sector 45, 48 cells, recalc. values

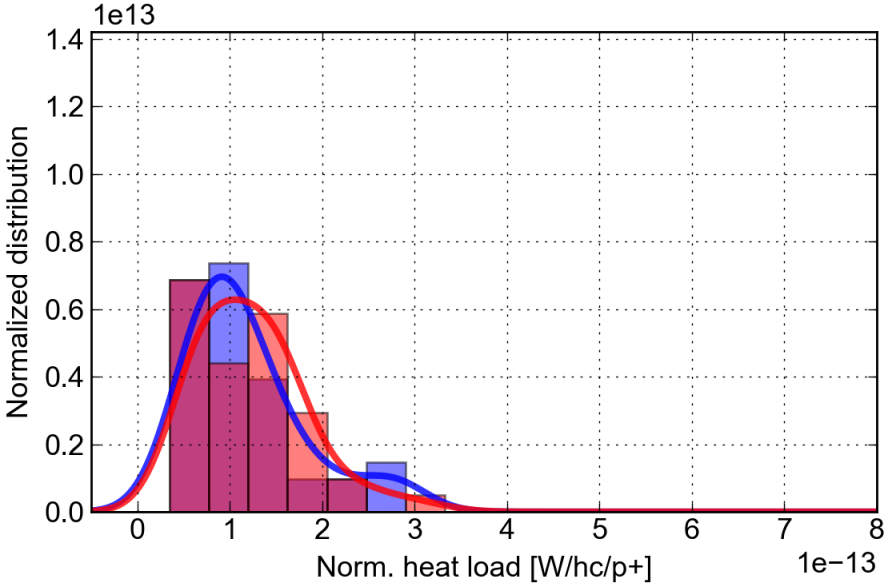




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S45 (avg) [W]	15.44	31.53
H.L. S45 (std) [W]	9.02	20.51
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

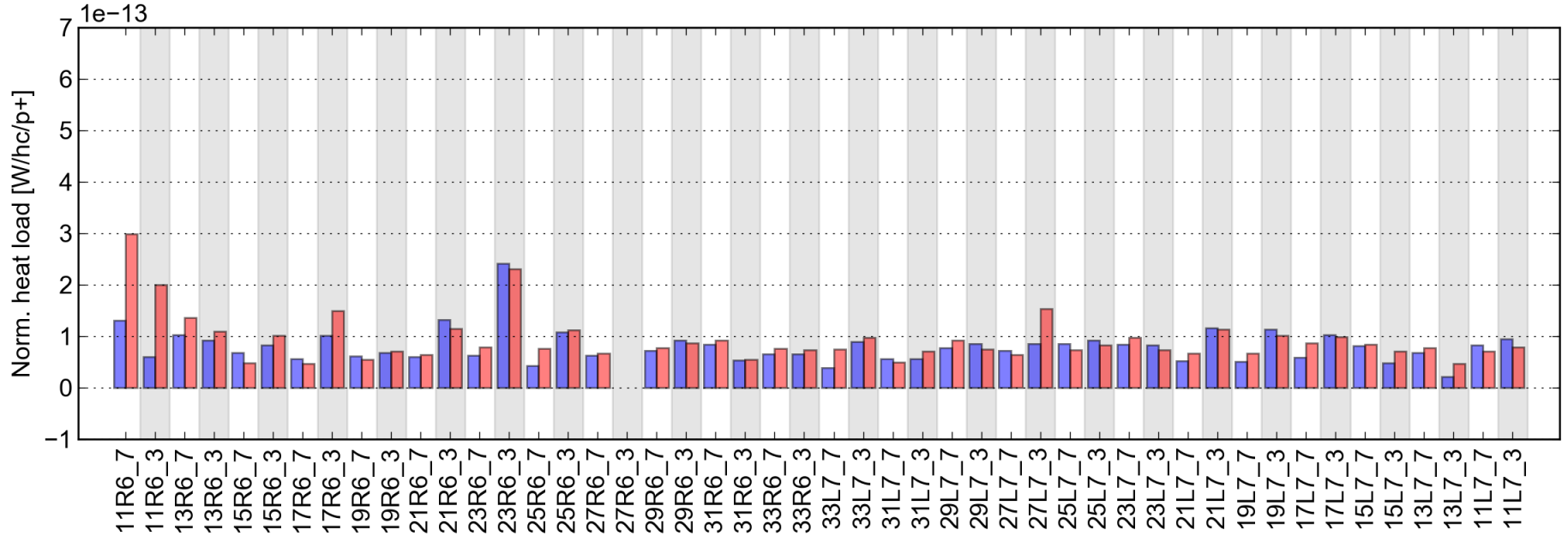
Sector 56, 48 cells, recalc. values

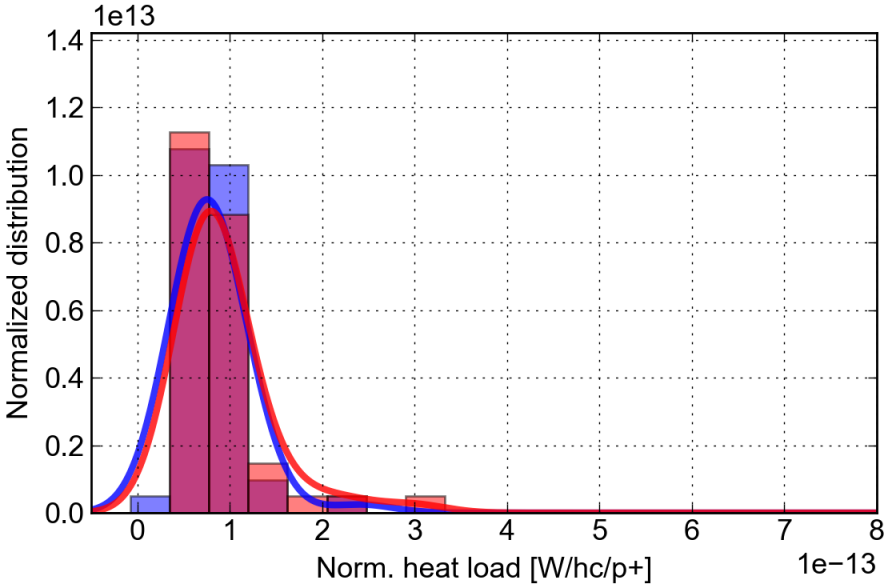




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S56 (avg) [W]	24.96	51.33
H.L. S56 (std) [W]	13.08	22.92
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

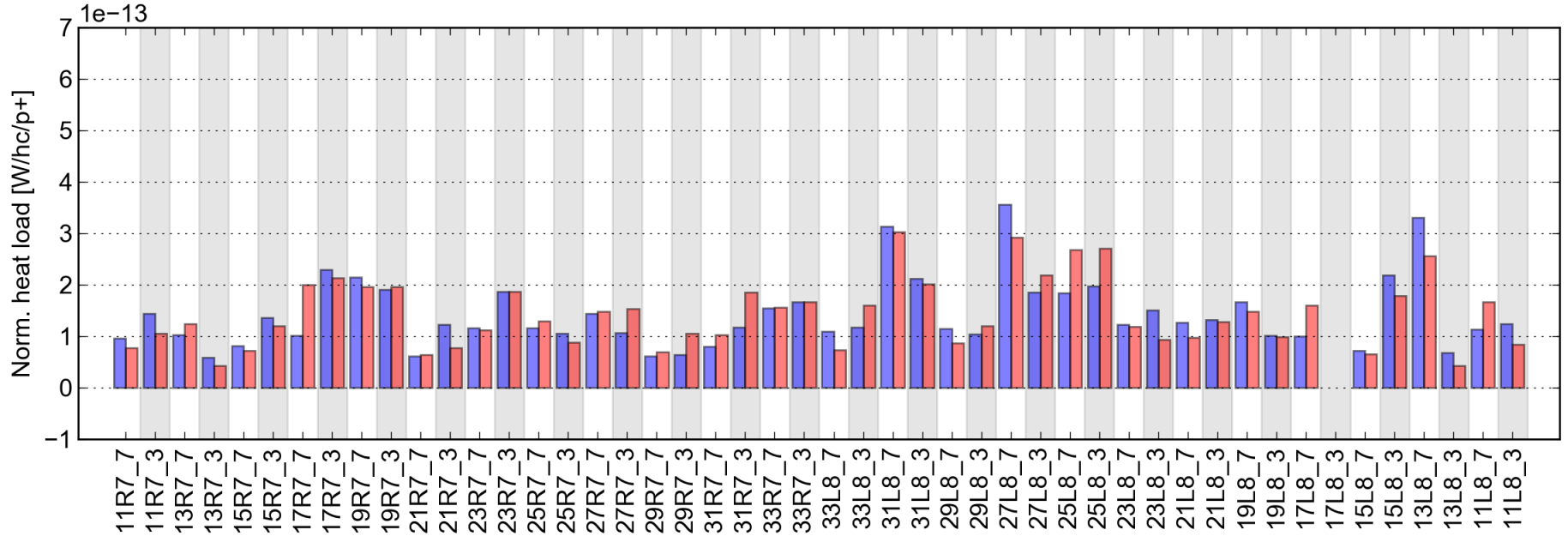
Sector 67, 48 cells, recalc. values

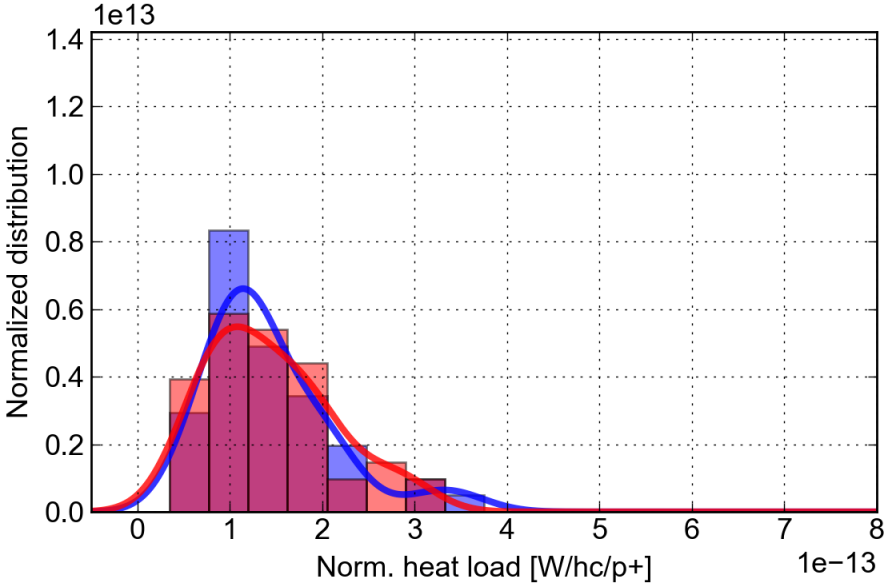




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S67 (avg) [W]	16.93	39.30
H.L. S67 (std) [W]	7.00	19.68
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

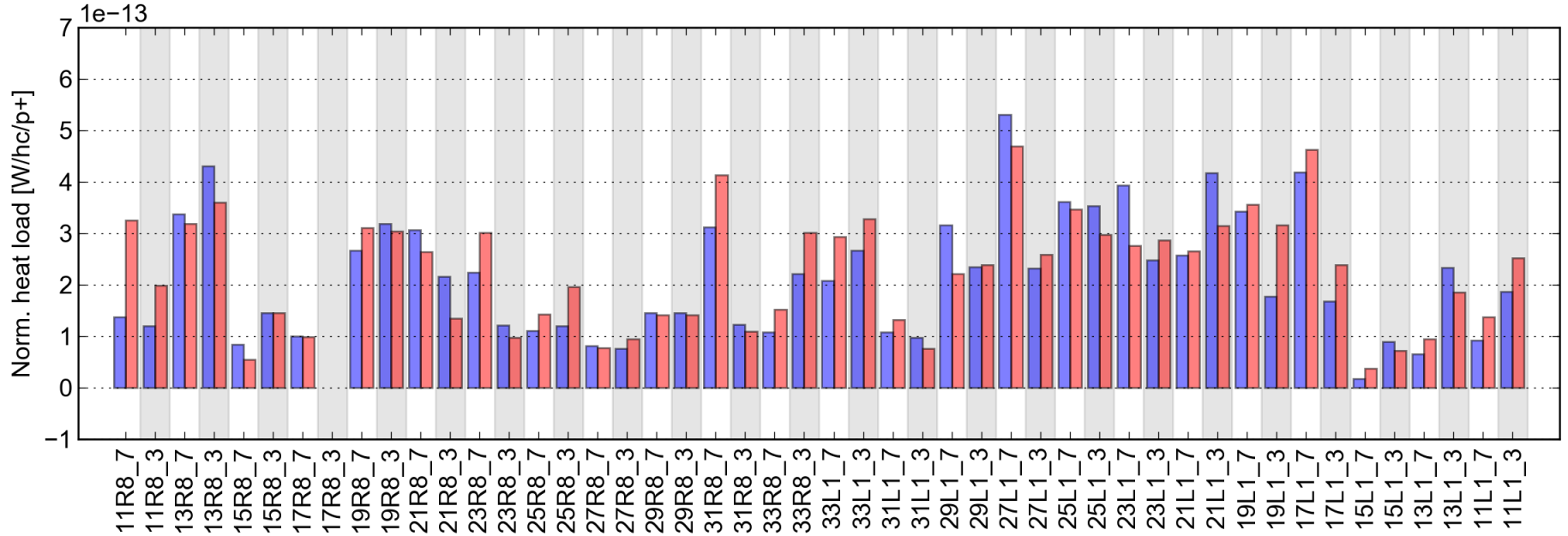
Sector 78, 48 cells, recalc. values

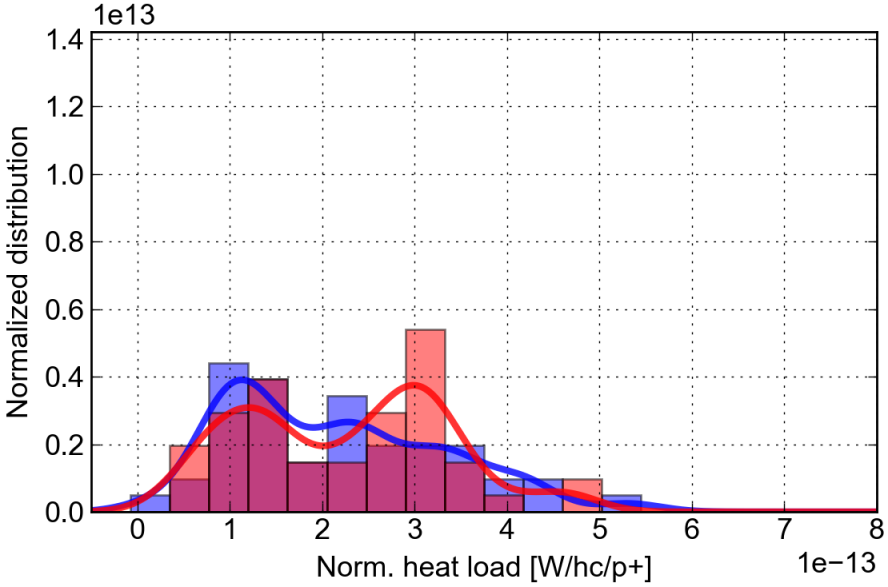




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S78 (avg) [W]	30.00	60.20
H.L. S78 (std) [W]	14.08	27.56
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

Sector 81, 48 cells, recalc. values

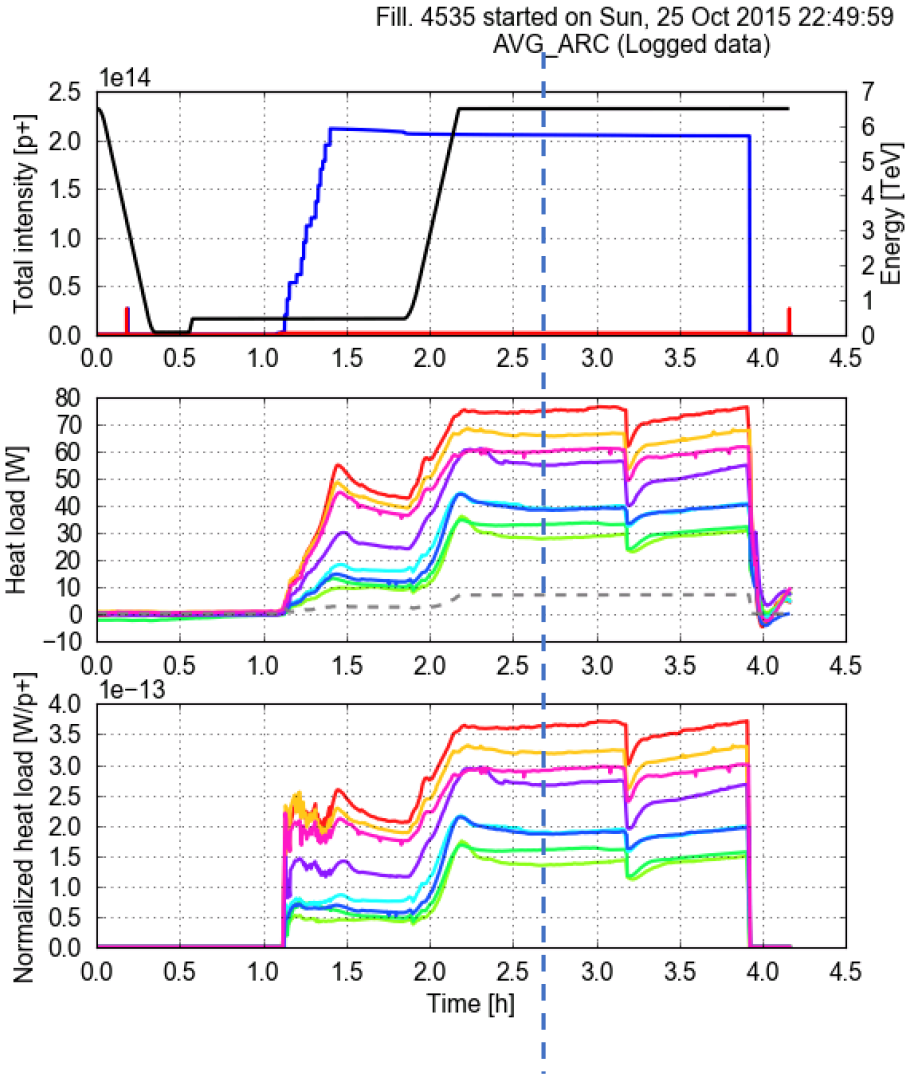


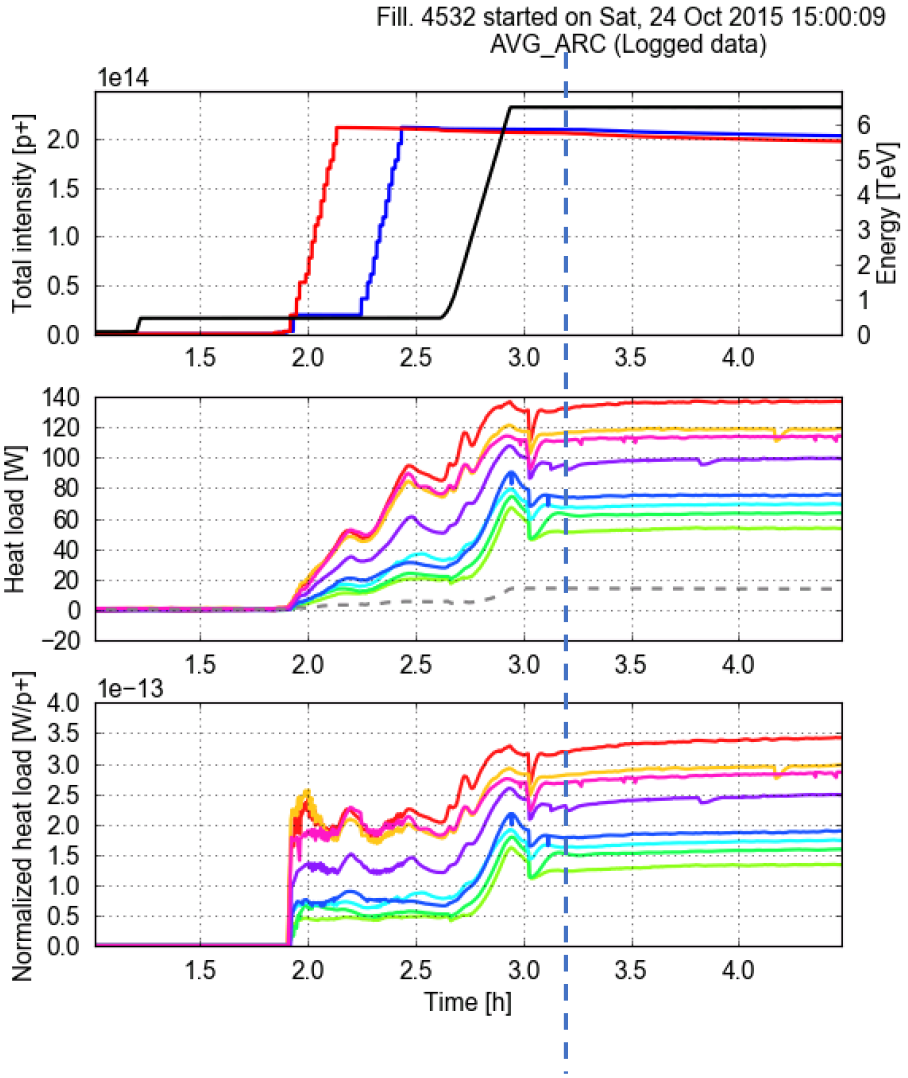


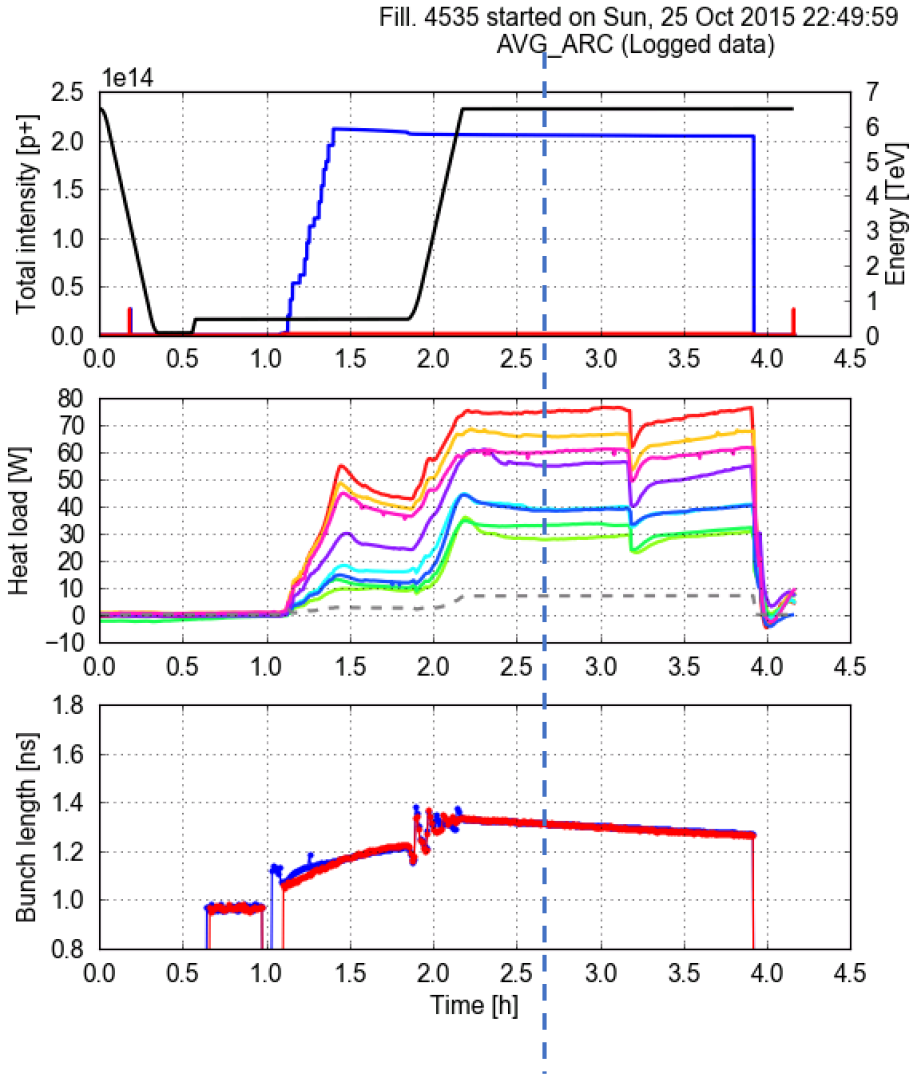
	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	1.75	2.60
Energy [GeV]	450	450
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.09e14/1.38e12	2.11e14/2.09e14
Bun.len. (B1/B2) [ns]	1.21/1.22	1.16/1.23
H.L. S81 (avg) [W]	45.20	95.18
H.L. S81 (std) [W]	24.71	46.00
H.L. exp. imped. [W]	2.45	5.00
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	1.50

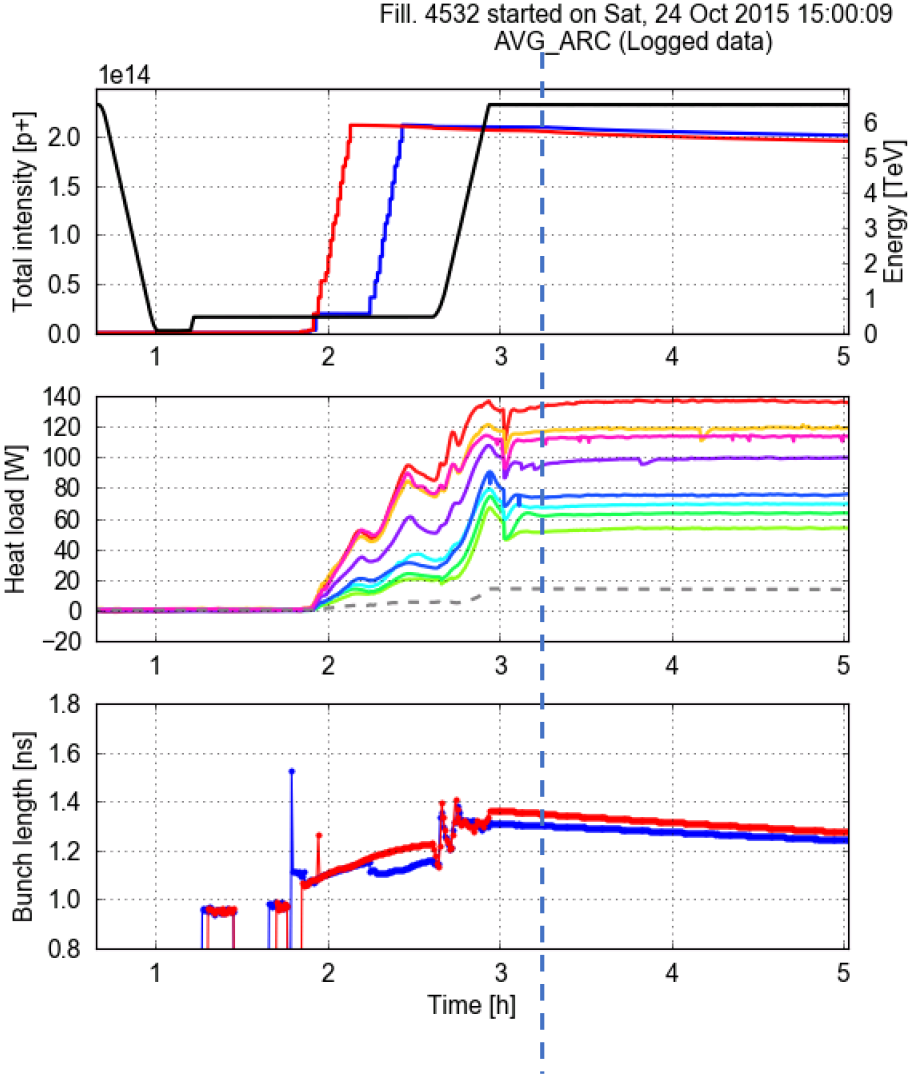
2015
6.5 TeV

Comparison made with ~1800b in trains of 72b

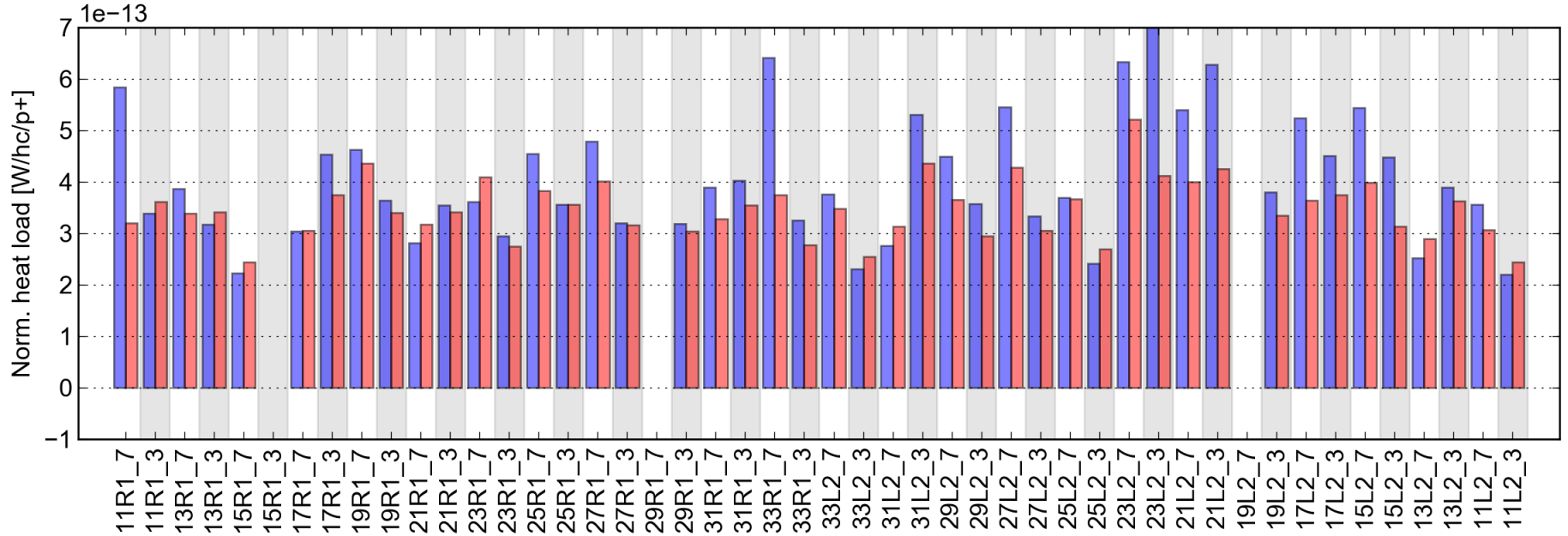

Fill. 4535 started on Sun, 25 Oct 2015 22:49:59
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

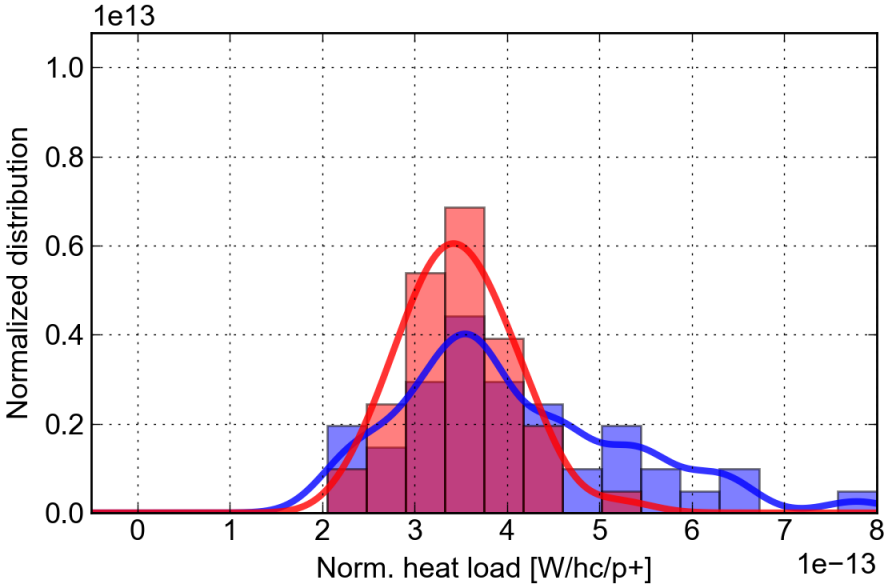

Fill. 4532 started on Sat, 24 Oct 2015 15:00:09
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 4535 started on Sun, 25 Oct 2015 22:49:59
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 4532 started on Sat, 24 Oct 2015 15:00:09
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

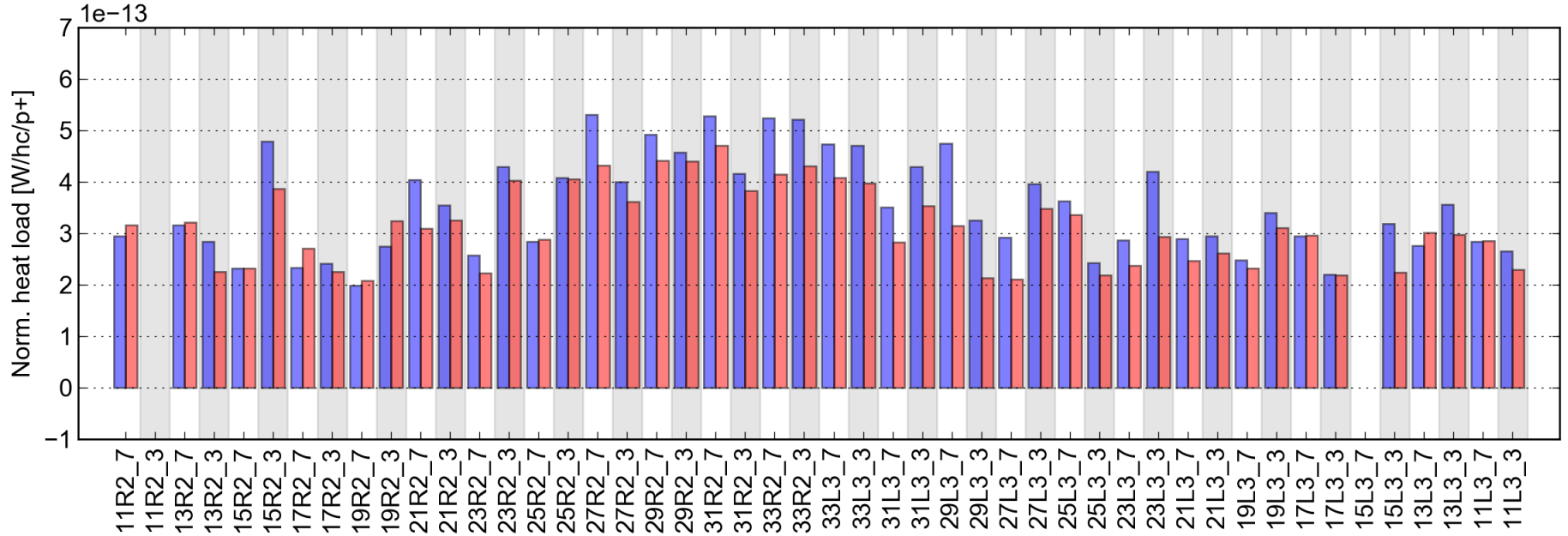
Sector 12, 48 cells, recalc. values

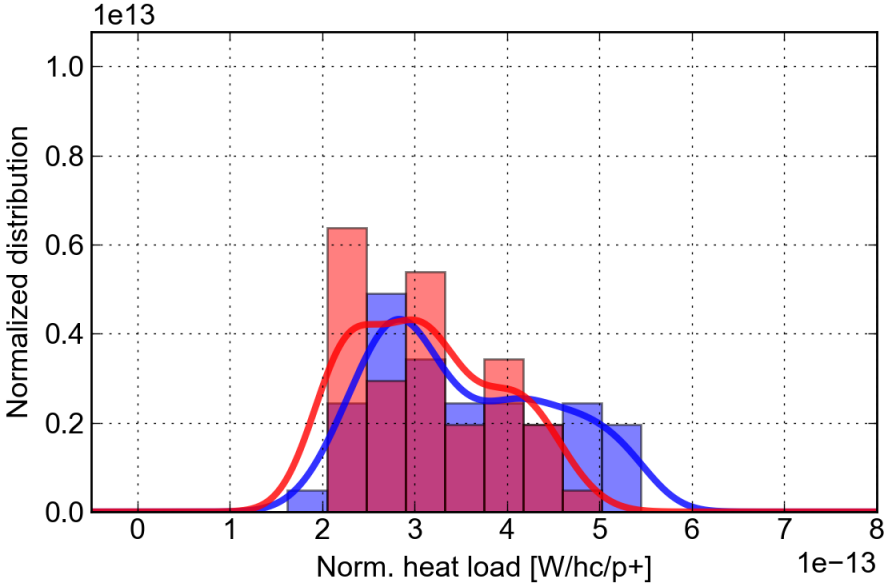




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S12 (avg) [W]	83.88	144.17
H.L. S12 (std) [W]	25.62	23.55
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

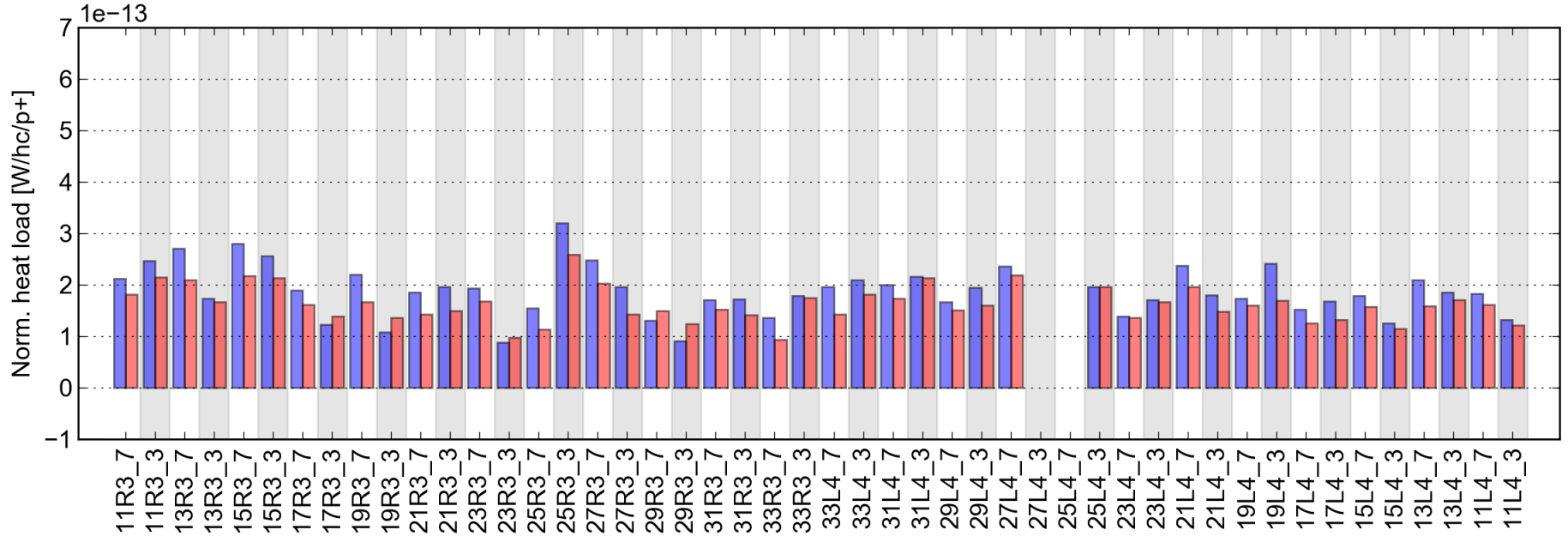
Sector 23, 48 cells, recalc. values

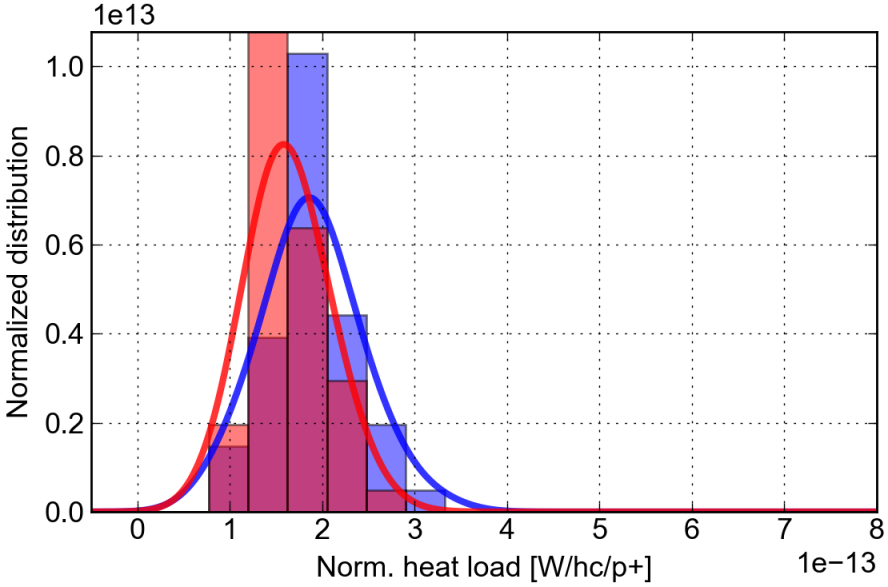




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S23 (avg) [W]	73.08	129.59
H.L. S23 (std) [W]	19.59	31.41
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

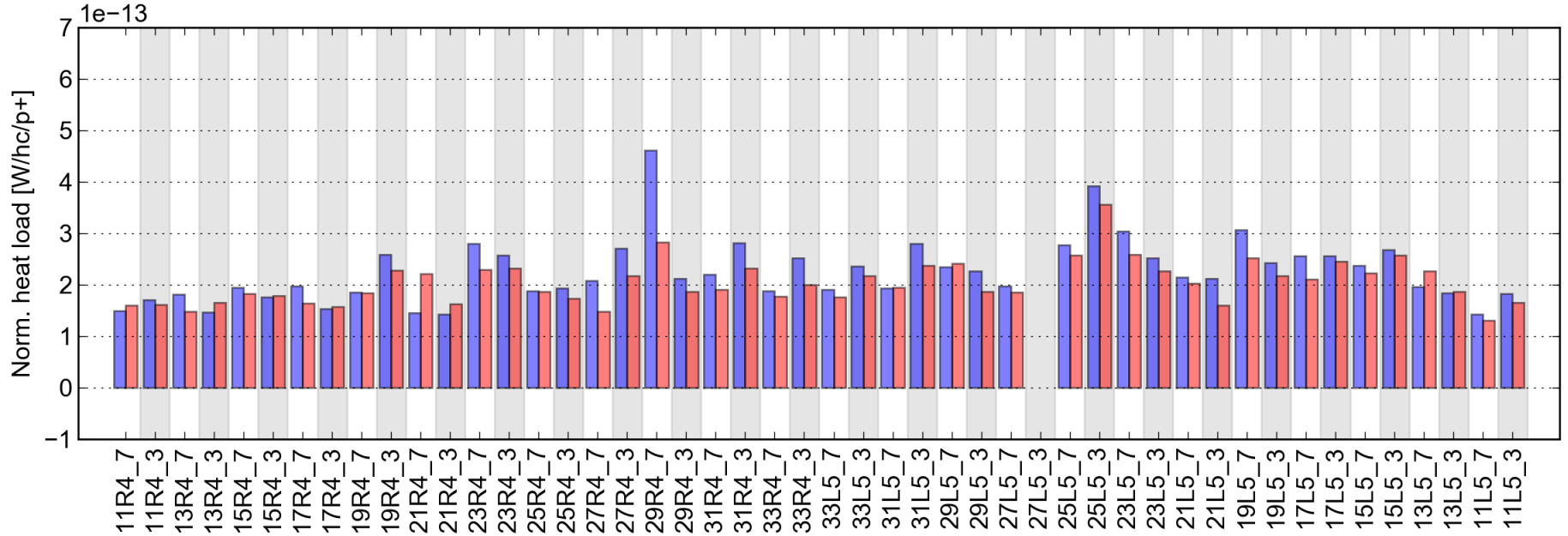
Sector 34, 48 cells, recalc. values

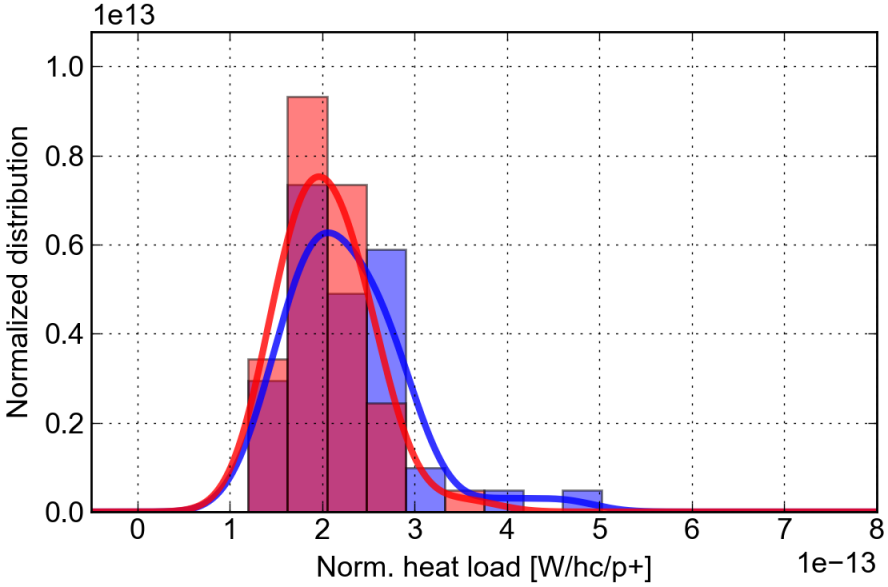




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S34 (avg) [W]	38.81	67.52
H.L. S34 (std) [W]	9.92	14.20
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

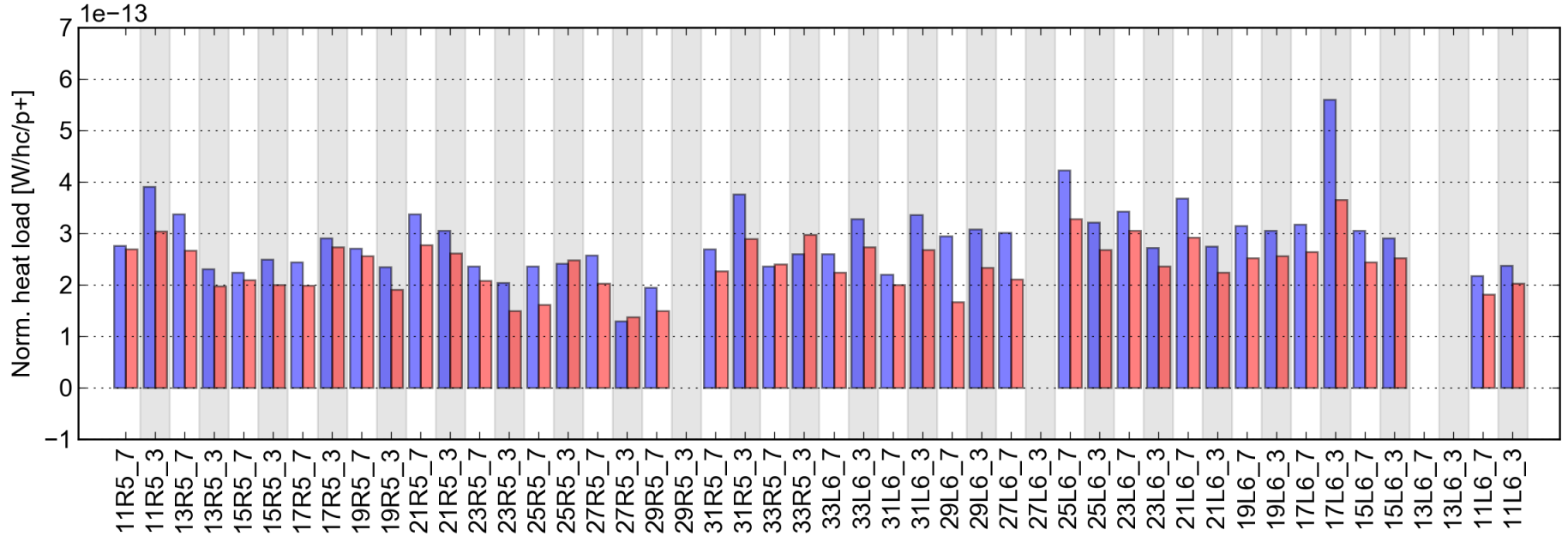
Sector 45, 48 cells, recalc. values

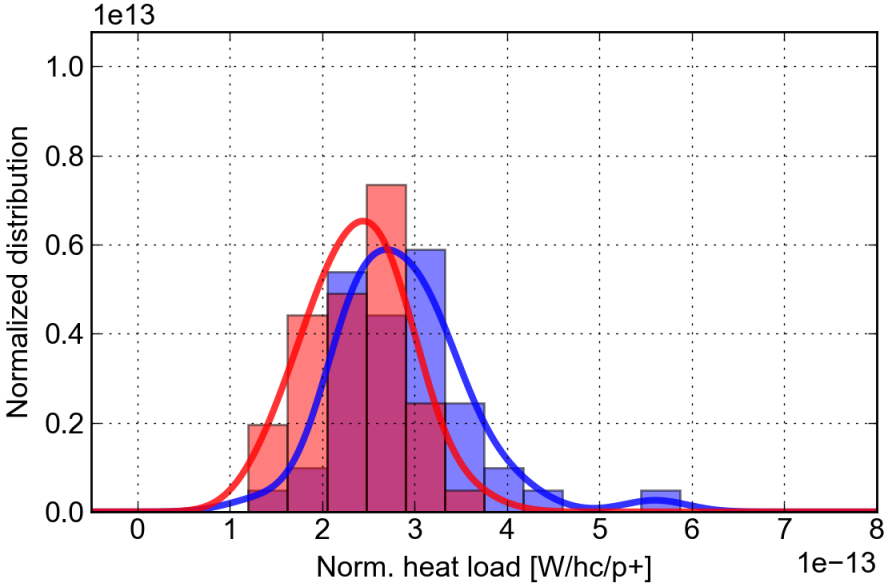




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S45 (avg) [W]	46.63	84.72
H.L. S45 (std) [W]	12.69	17.22
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

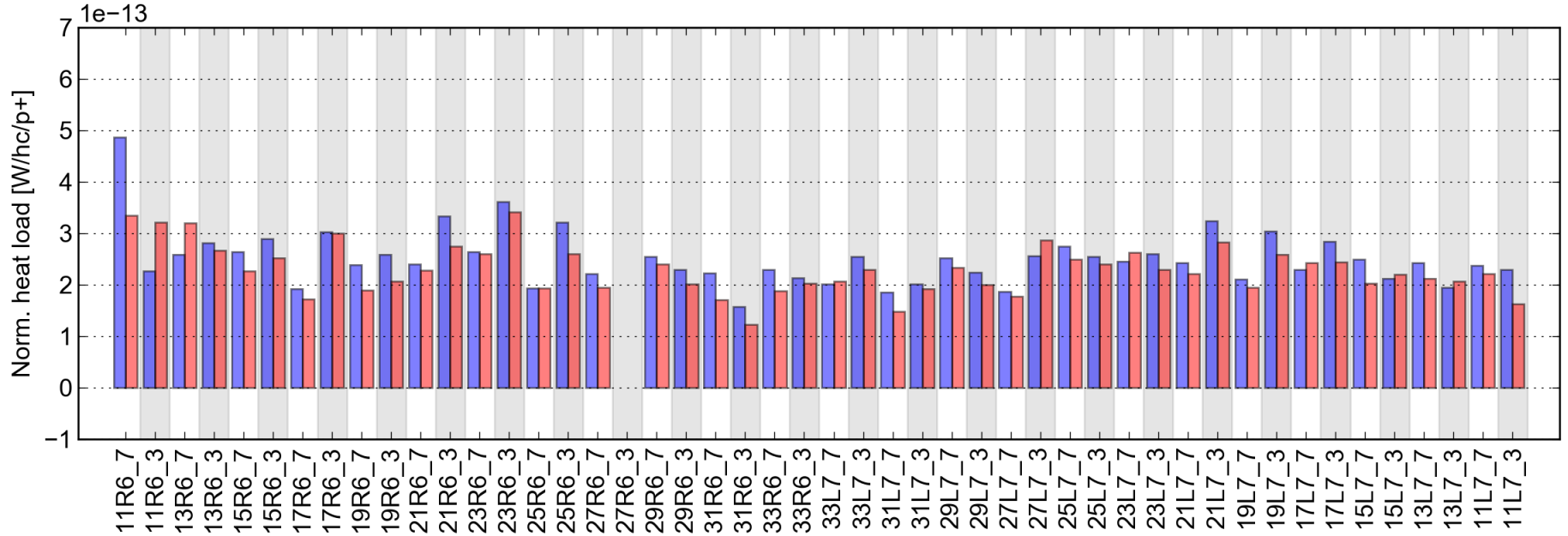
Sector 56, 48 cells, recalc. values

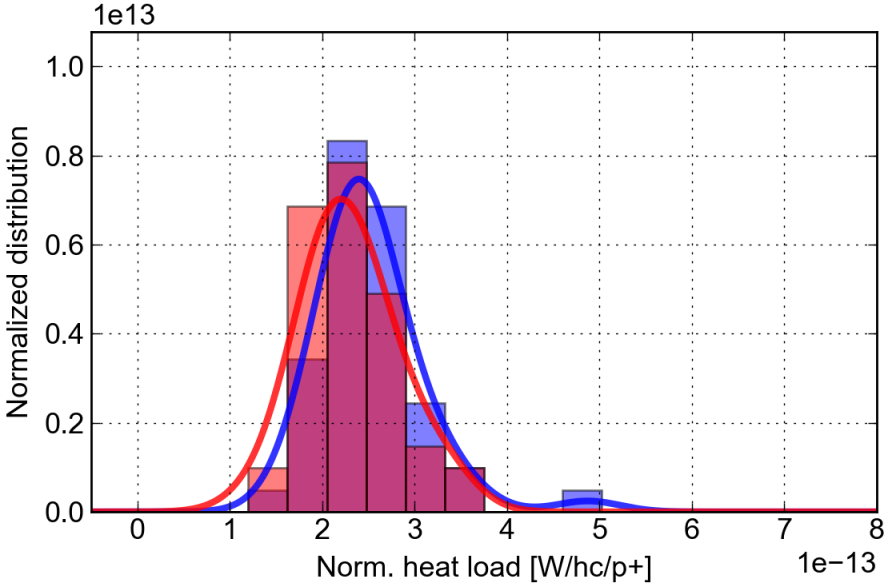




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S56 (avg) [W]	59.32	98.77
H.L. S56 (std) [W]	14.39	20.38
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

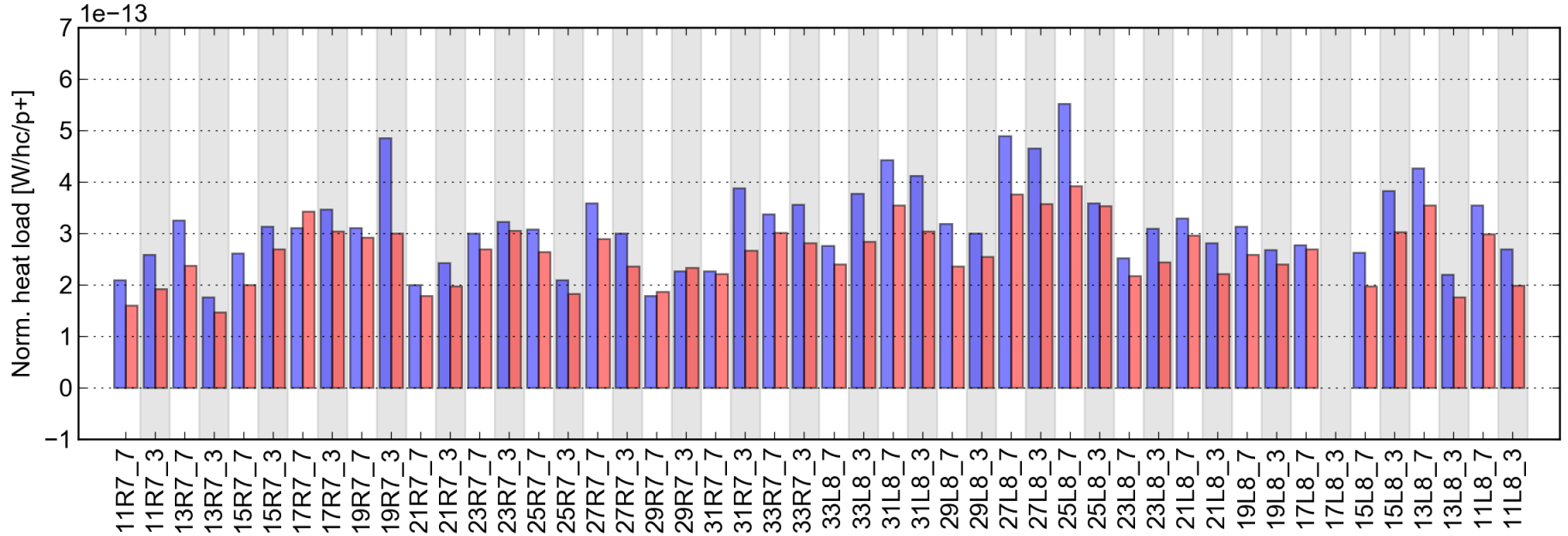
Sector 67, 48 cells, recalc. values

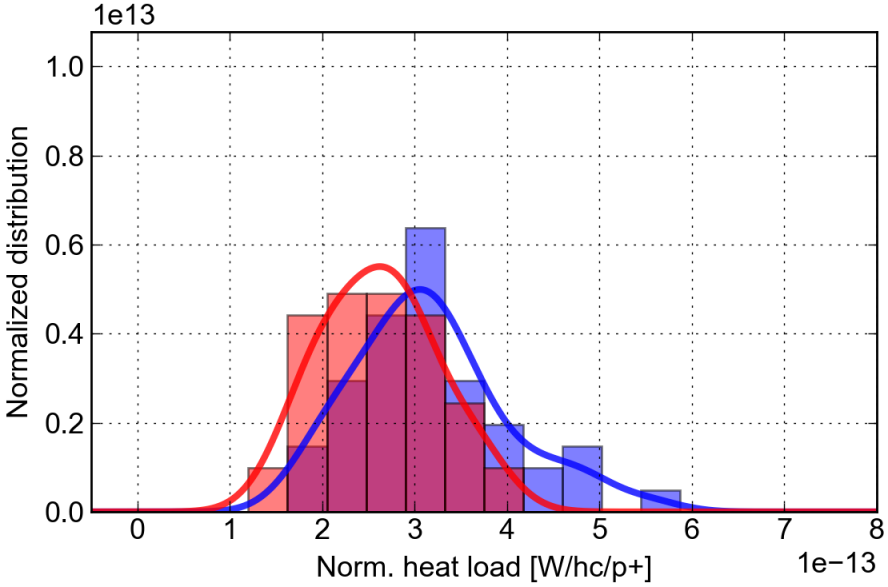




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S67 (avg) [W]	51.94	95.40
H.L. S67 (std) [W]	11.16	19.64
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

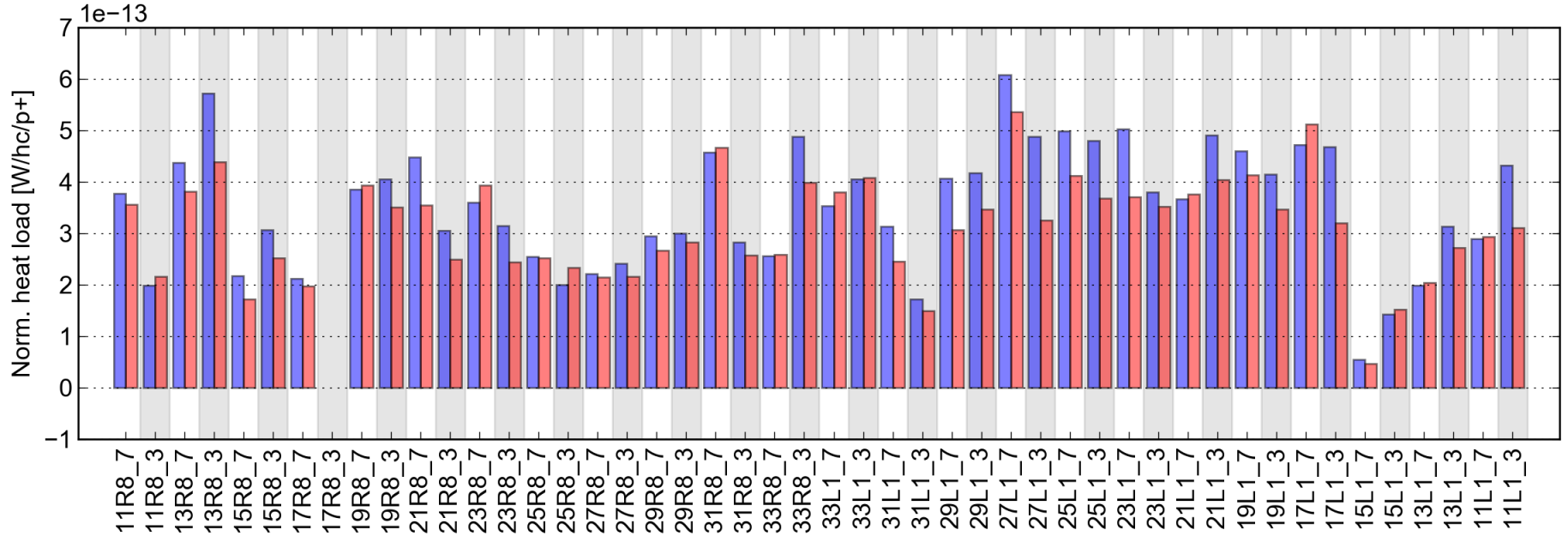
Sector 78, 48 cells, recalc. values

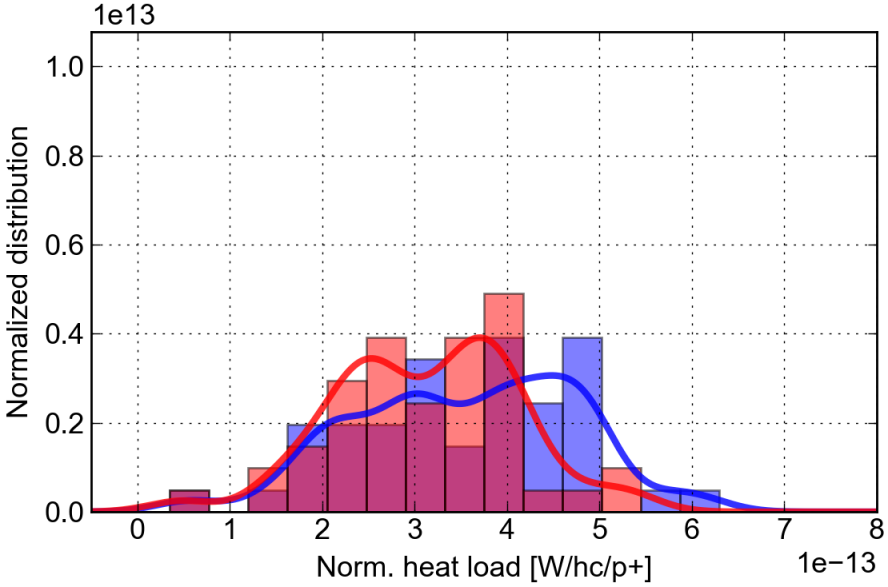




	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S78 (avg) [W]	65.49	108.53
H.L. S78 (std) [W]	17.15	24.65
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

Sector 81, 48 cells, recalc. values

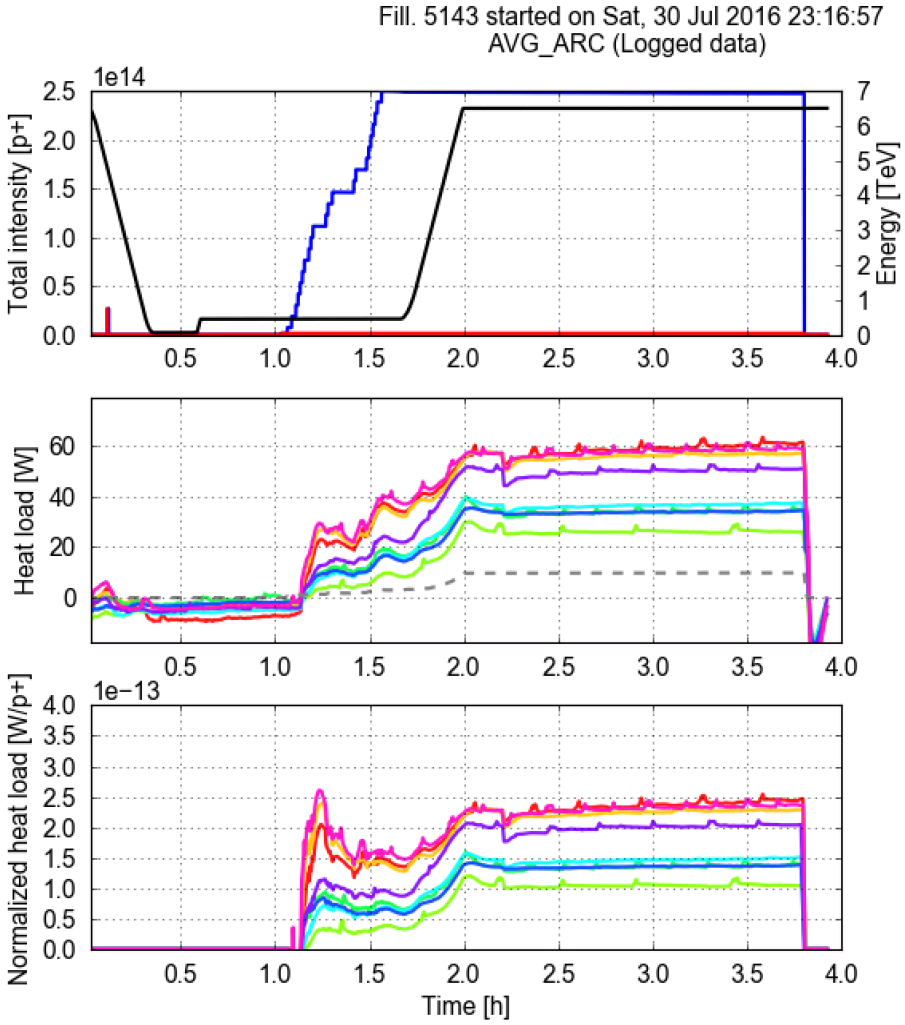


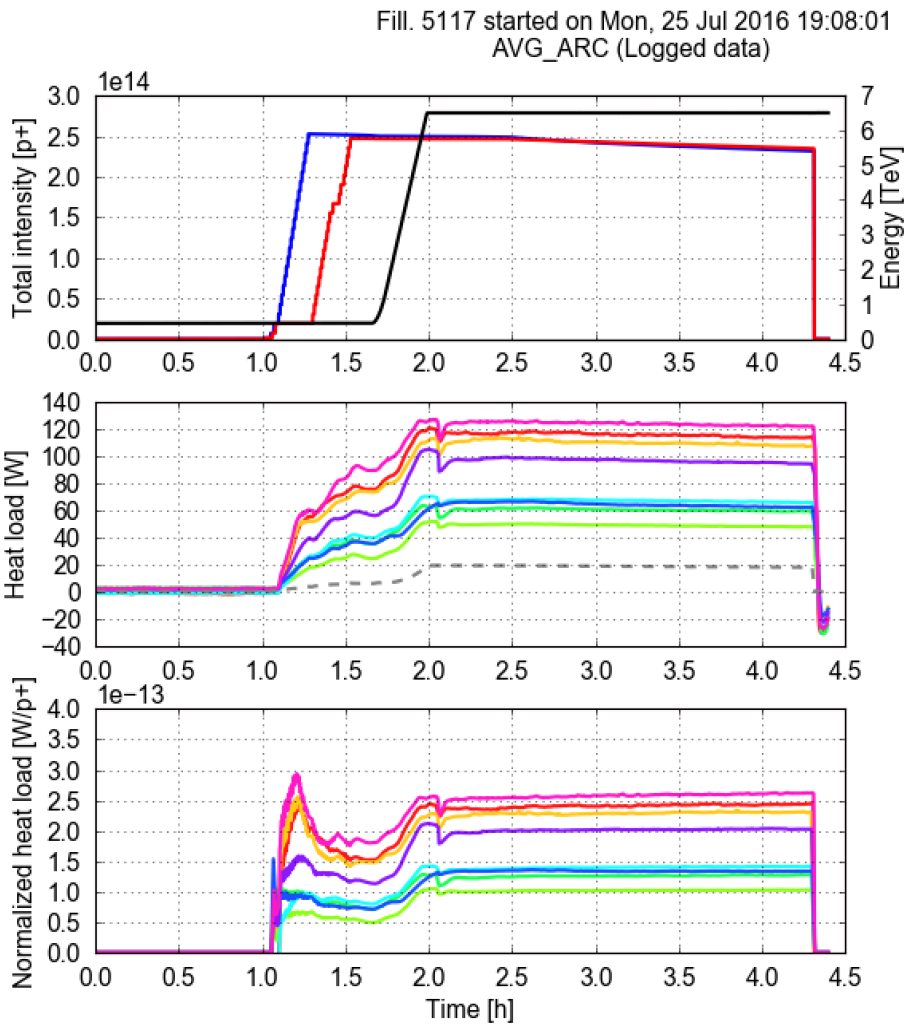


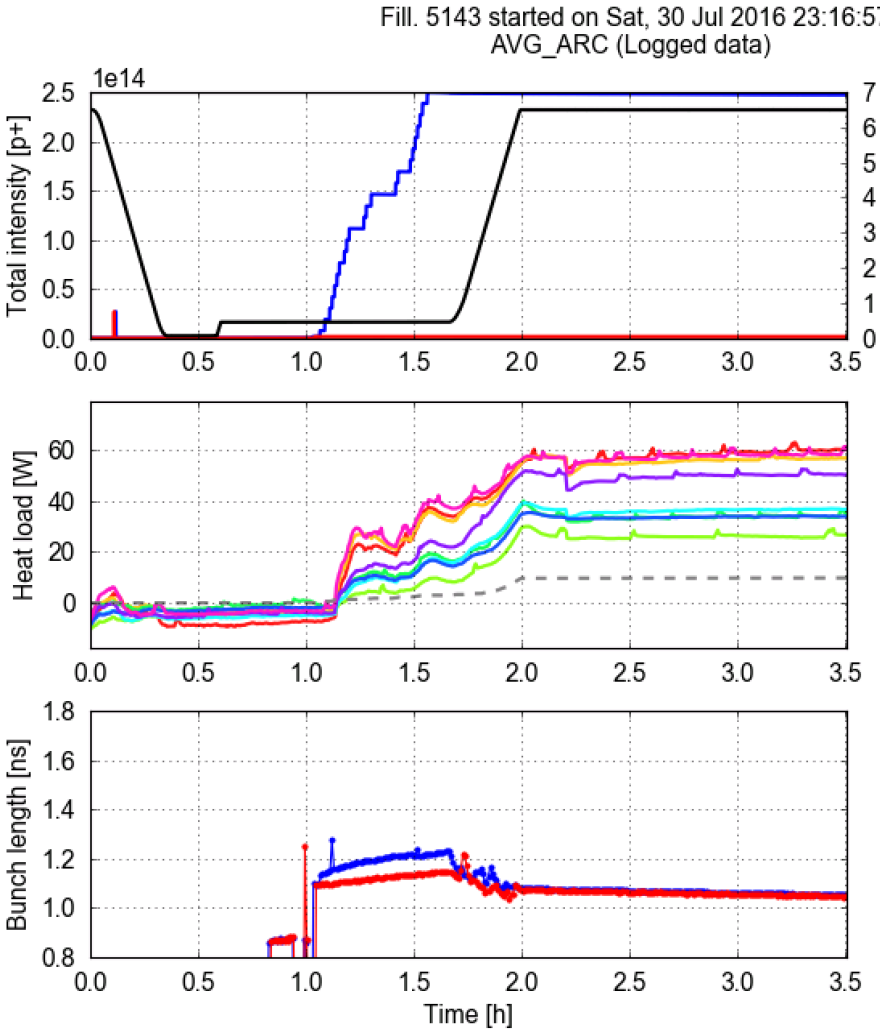
	B1 only	B1 and B2
Fill	4535	4532
Started on	25 Oct 2015 22:49	24 Oct 2015 15:00
T_sample [h]	2.70	3.20
Energy [GeV]	6500	6500
N_bunches (B1/B2)	1825/12	1825/1824
Intensity (B1/B2) [p]	2.05e14/1.37e12	2.09e14/2.06e14
Bun.len. (B1/B2) [ns]	1.31/1.31	1.30/1.35
H.L. S81 (avg) [W]	73.29	129.83
H.L. S81 (std) [W]	24.57	40.59
H.L. exp. imped. [W]	2.54	5.05
H.L. exp. synrad [W]	4.40	8.83
T_nobeam [h]	0.50	1.50

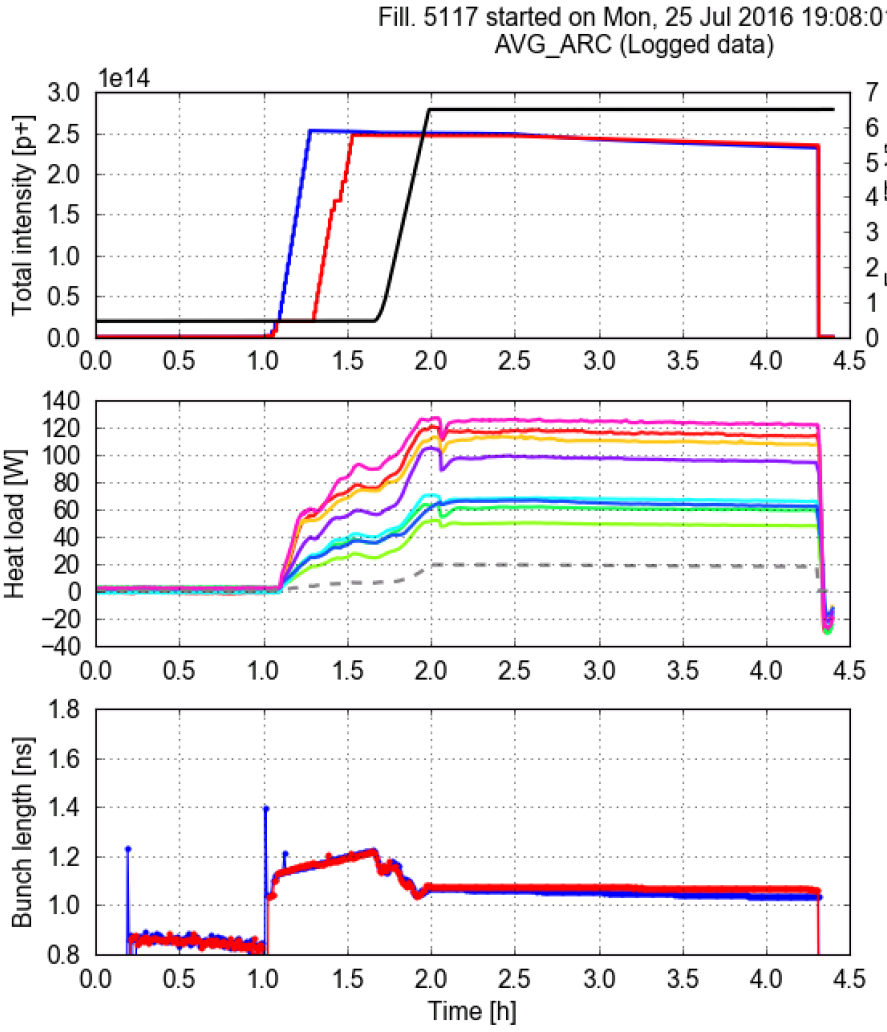
2016
450 GeV

Comparison made with ~2000b in trains of 2x48b (BCMS)

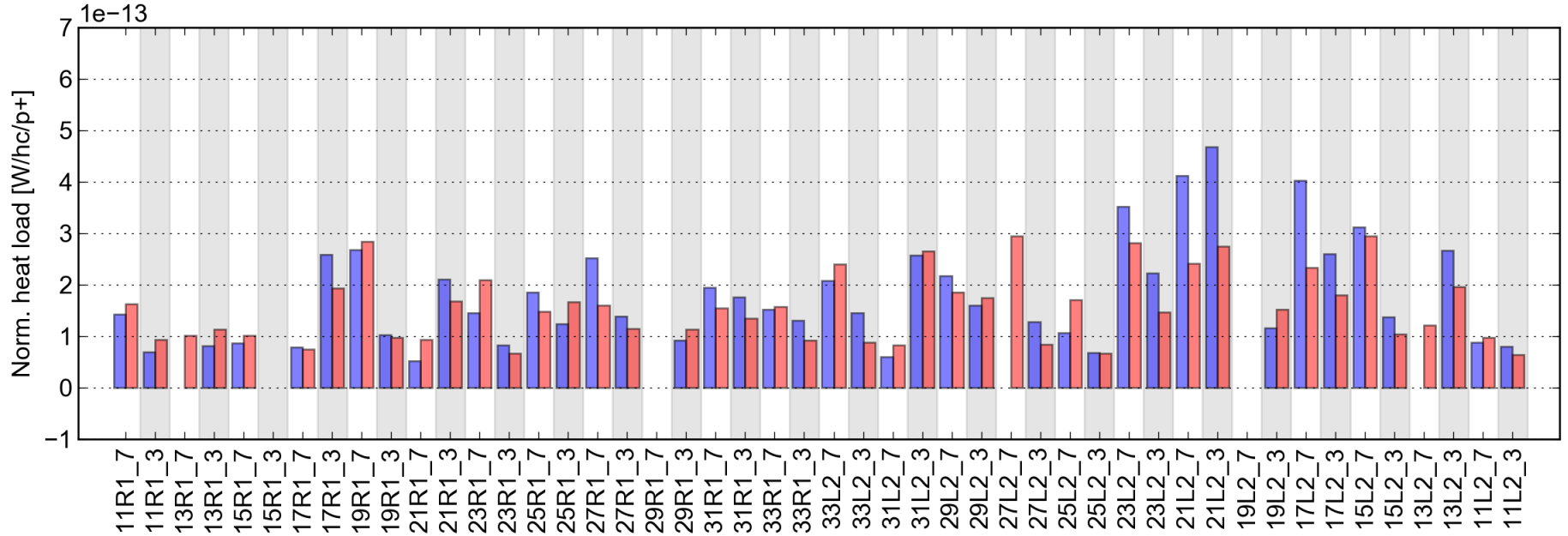

Fill. 5143 started on Sat, 30 Jul 2016 23:16:57
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

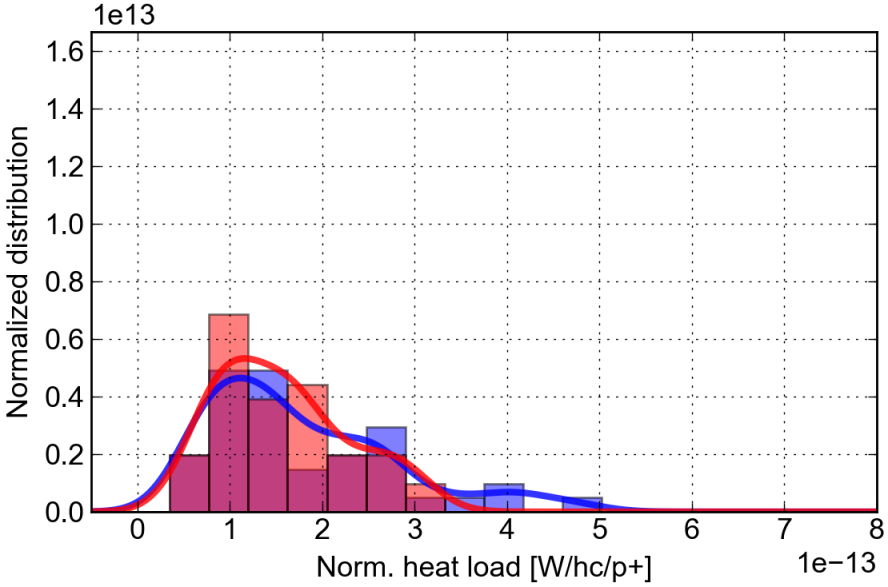

Fill. 5117 started on Mon, 25 Jul 2016 19:08:01
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5143 started on Sat, 30 Jul 2016 23:16:57
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5117 started on Mon, 25 Jul 2016 19:08:01
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

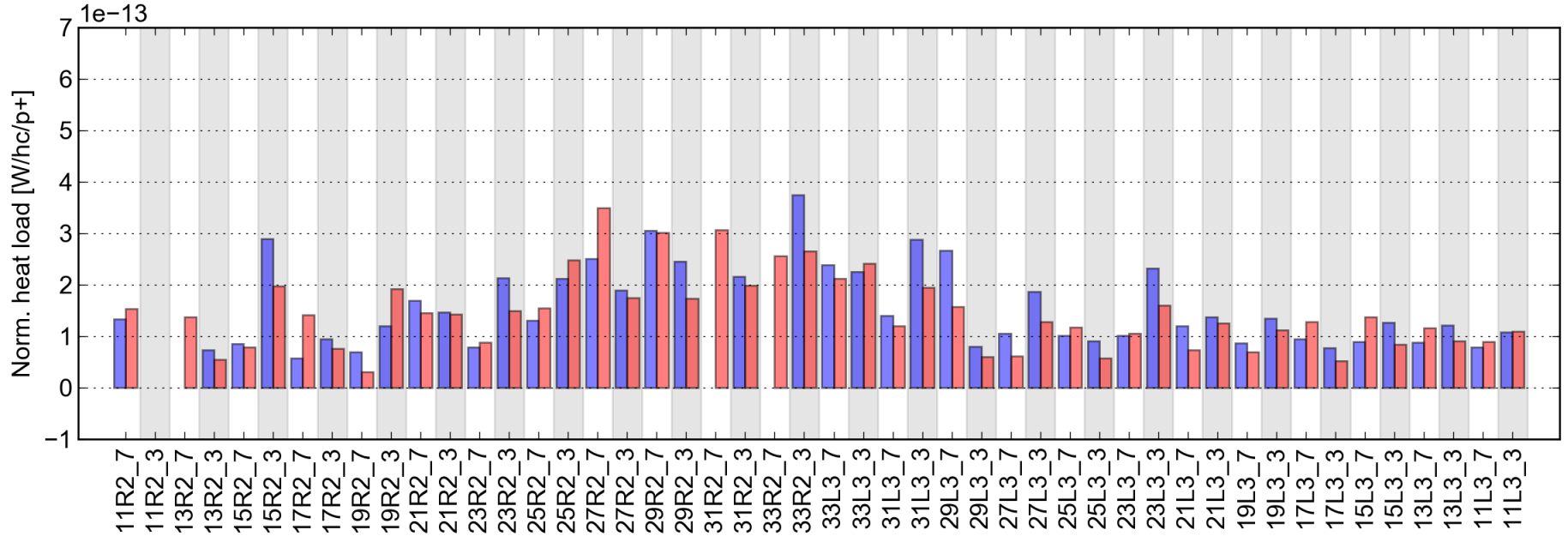
Sector 12, 48 cells, recalc. values

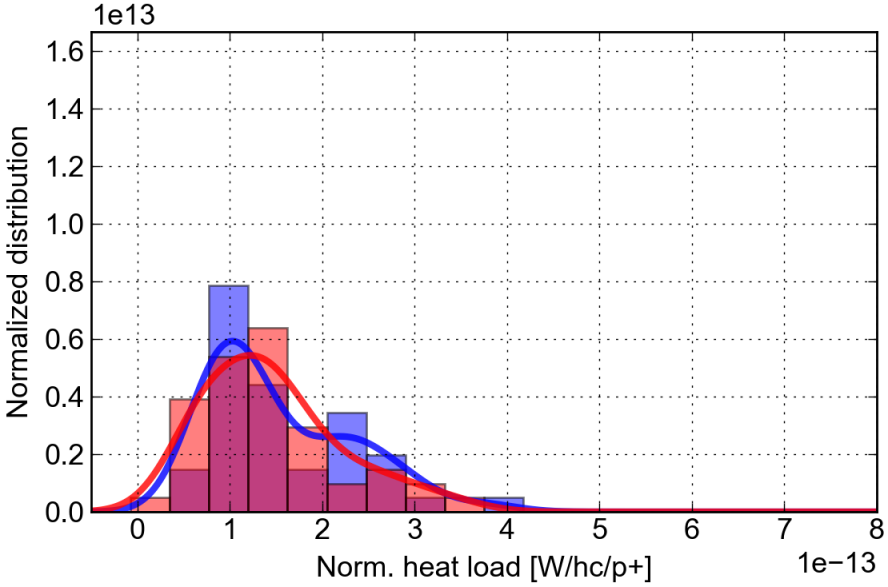




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S12 (avg) [W]	44.86	78.06
H.L. S12 (std) [W]	25.35	33.63
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

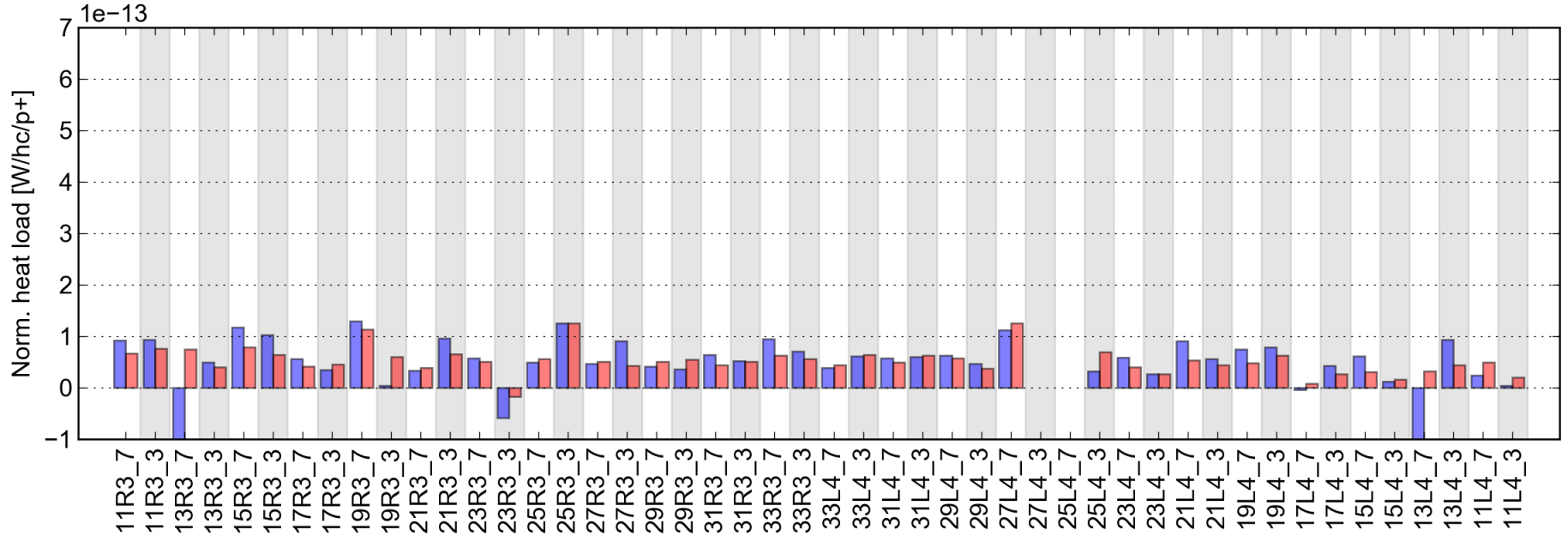
Sector 23, 48 cells, recalc. values

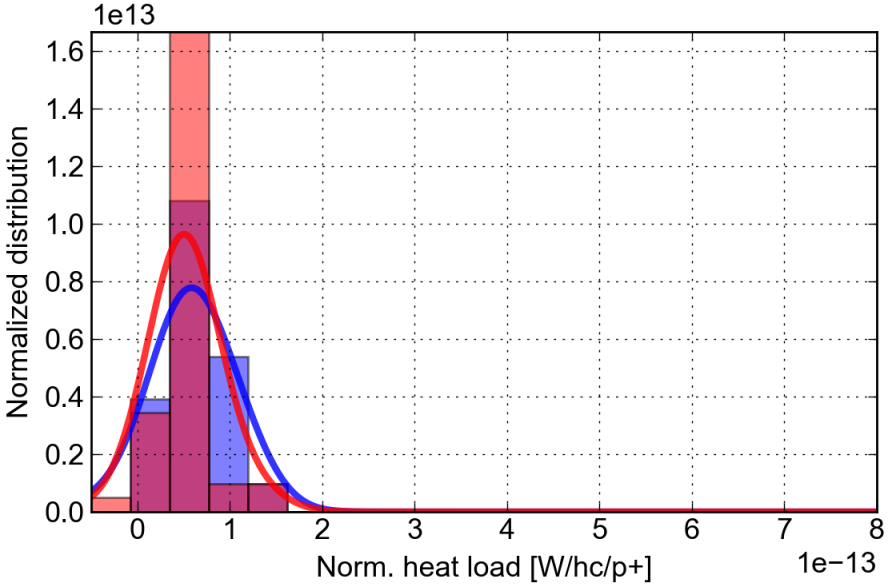




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S23 (avg) [W]	38.74	72.38
H.L. S23 (std) [W]	19.30	36.18
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

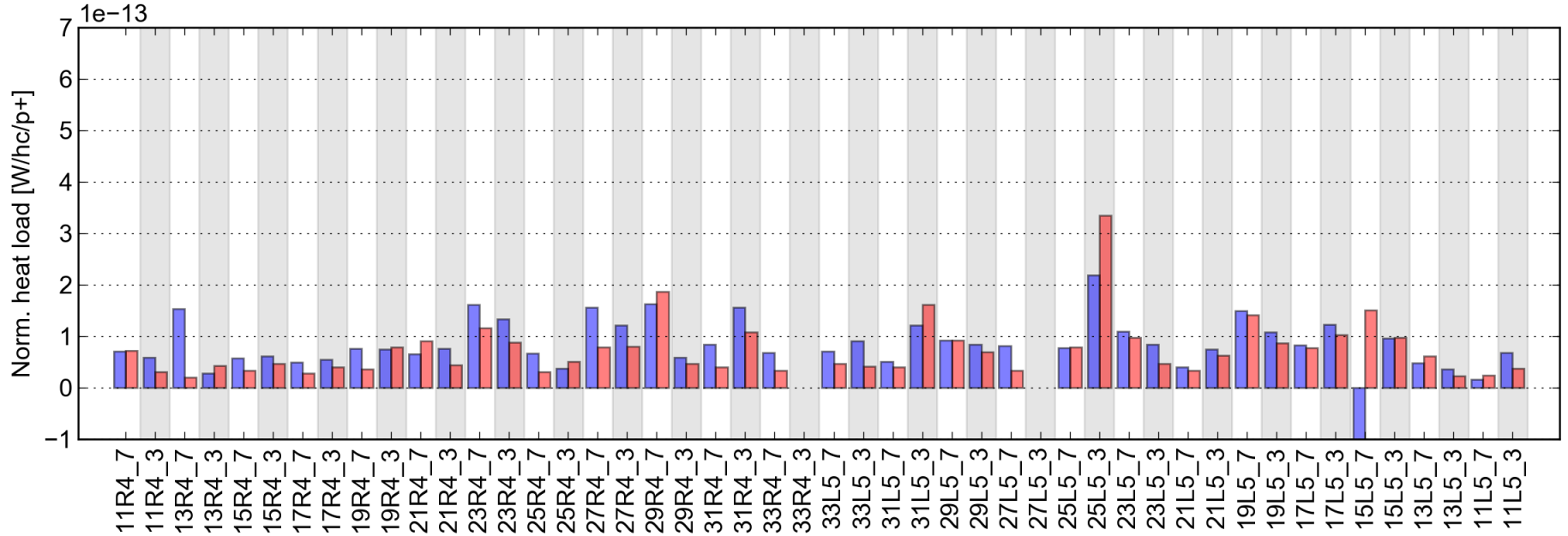
Sector 34, 48 cells, recalc. values

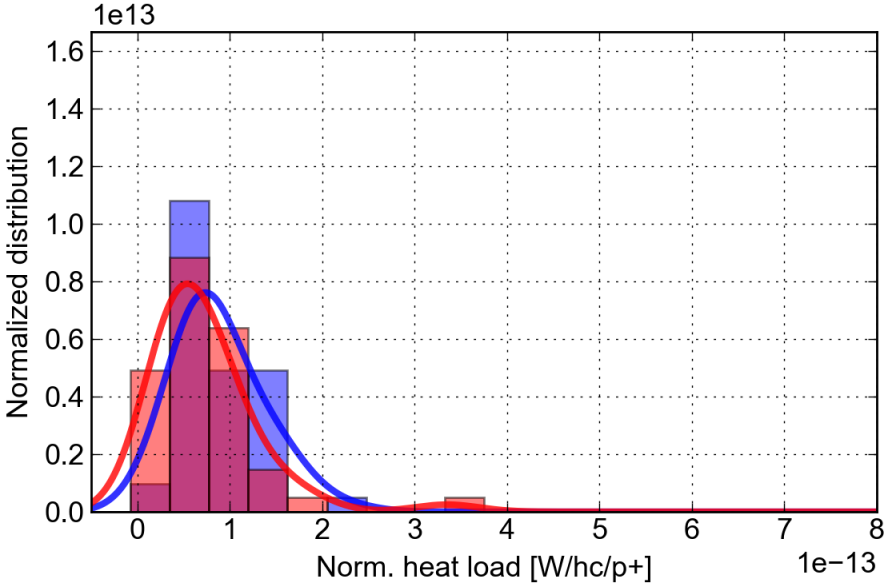




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S34 (avg) [W]	10.17	26.19
H.L. S34 (std) [W]	23.47	12.71
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

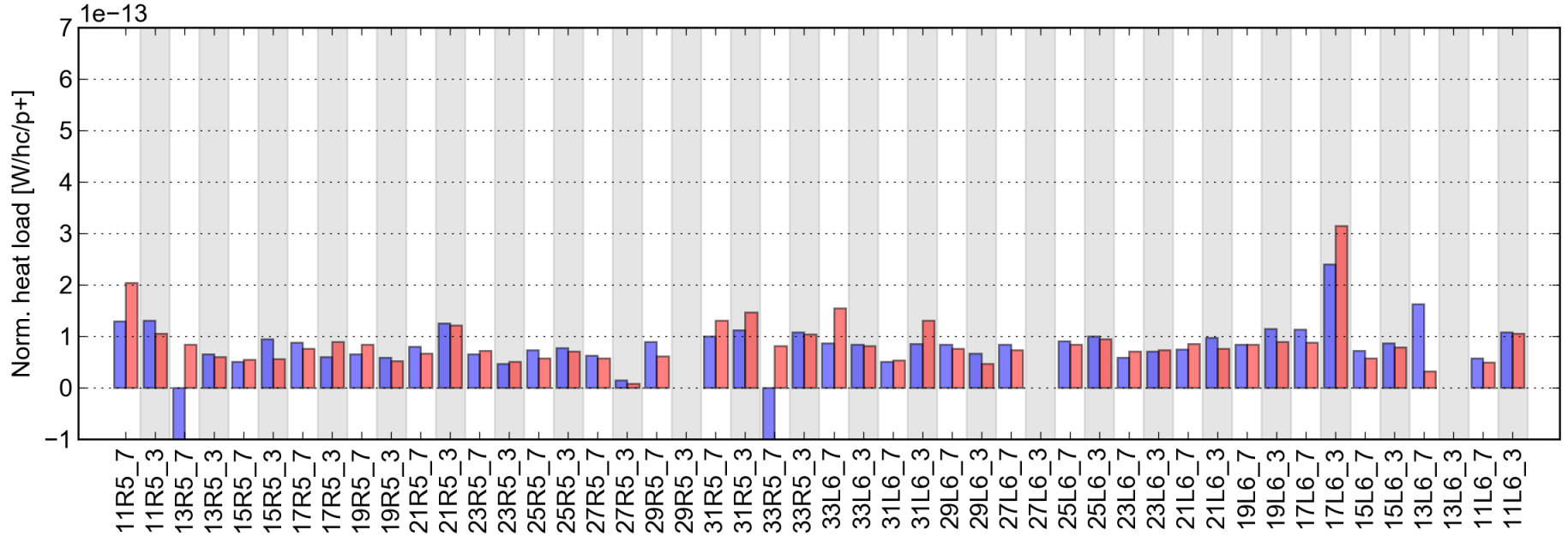
Sector 45, 48 cells, recalc. values

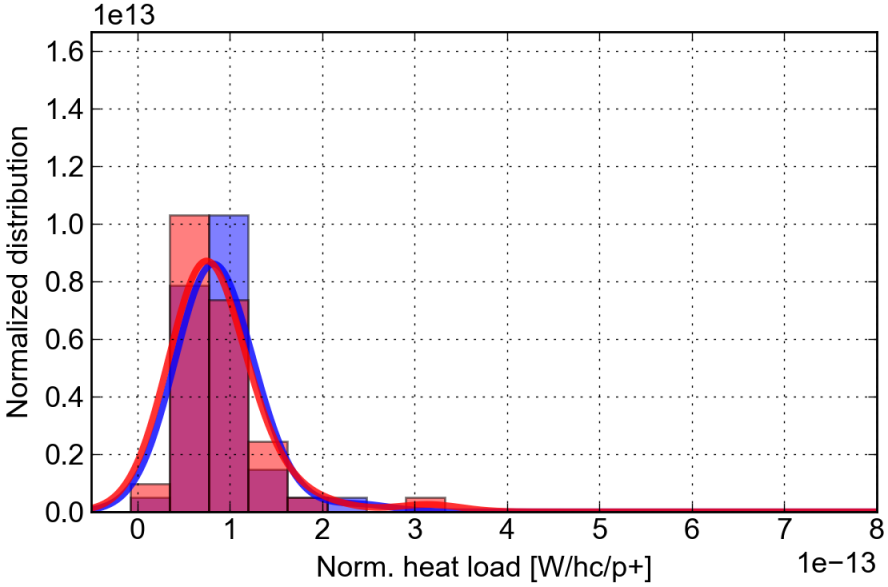




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S45 (avg) [W]	19.31	36.55
H.L. S45 (std) [W]	21.77	27.29
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

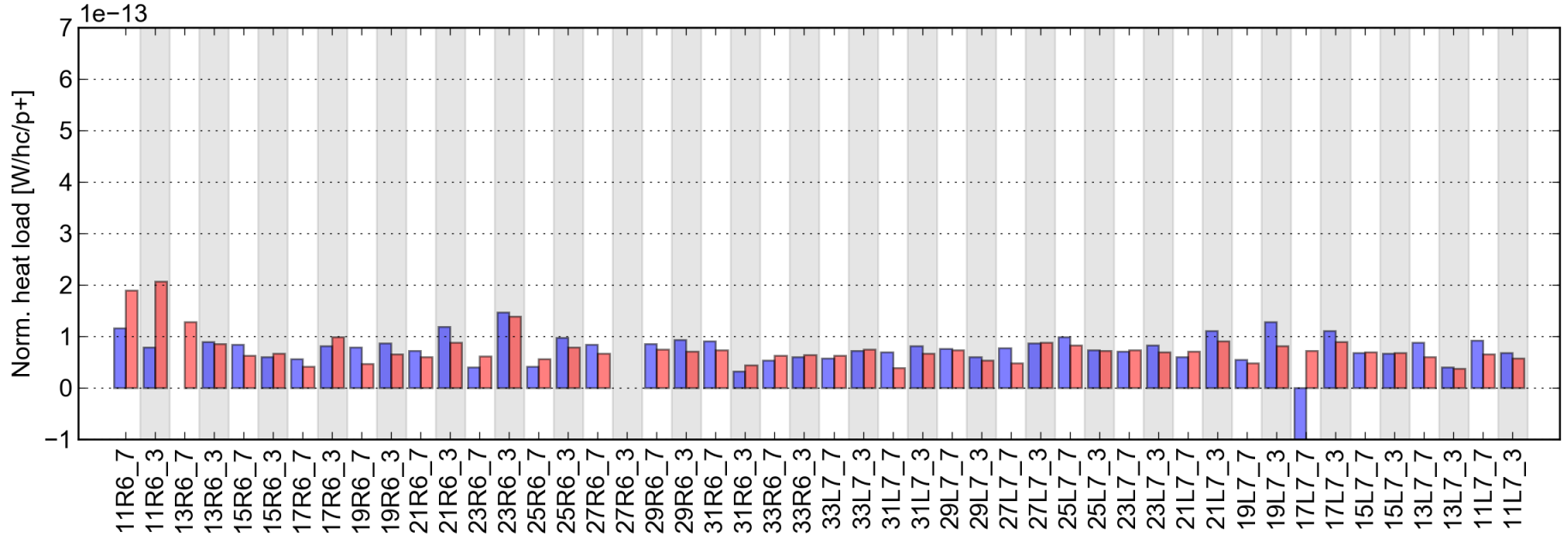
Sector 56, 48 cells, recalc. values

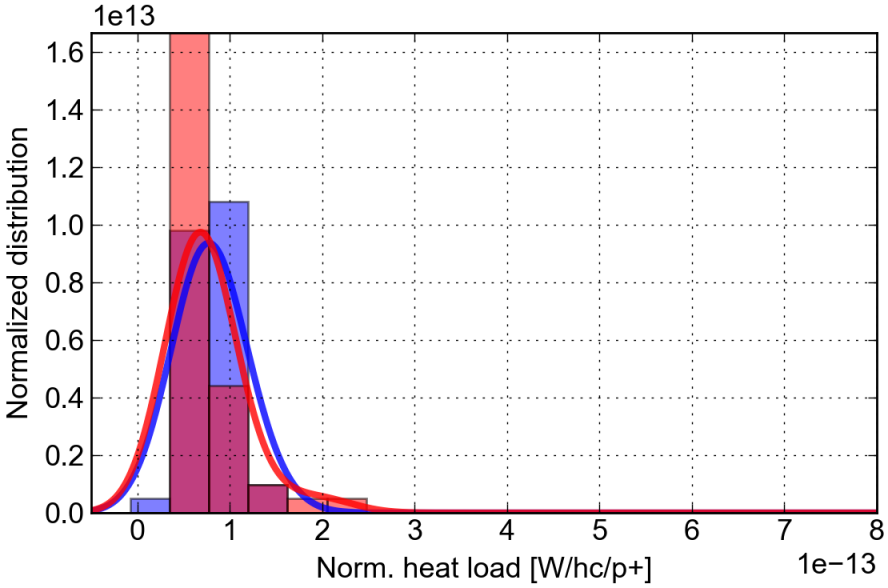




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S56 (avg) [W]	16.92	43.23
H.L. S56 (std) [W]	25.62	23.86
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

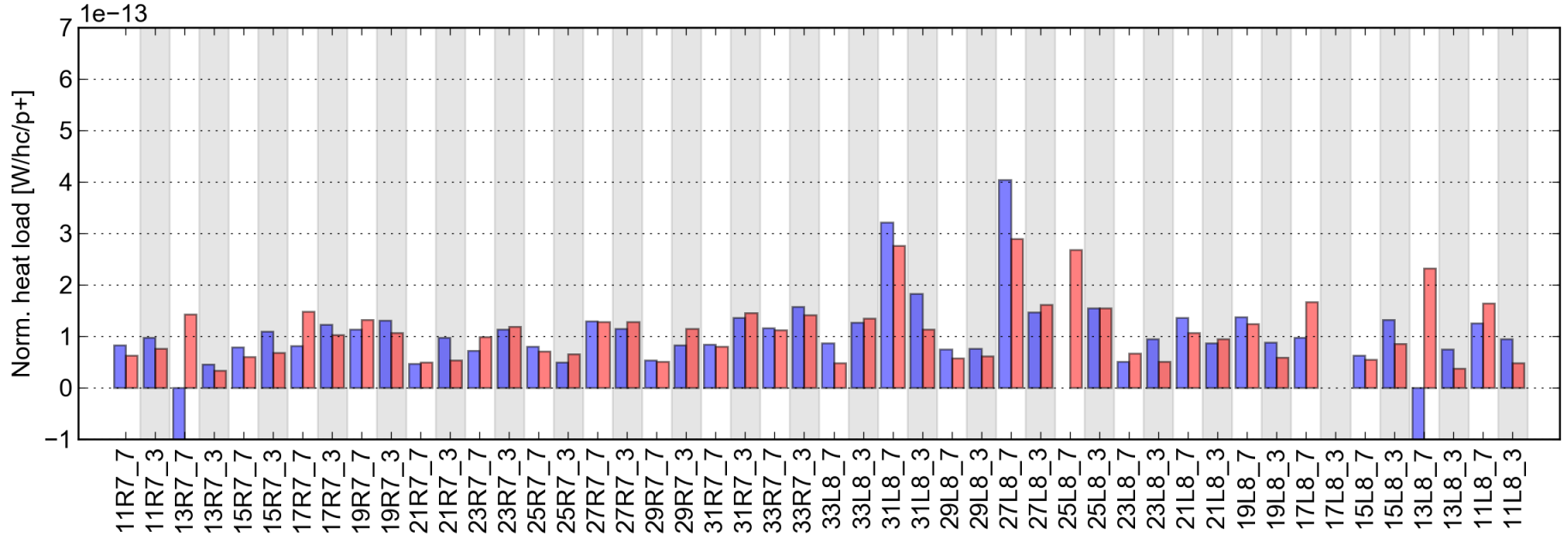
Sector 67, 48 cells, recalc. values

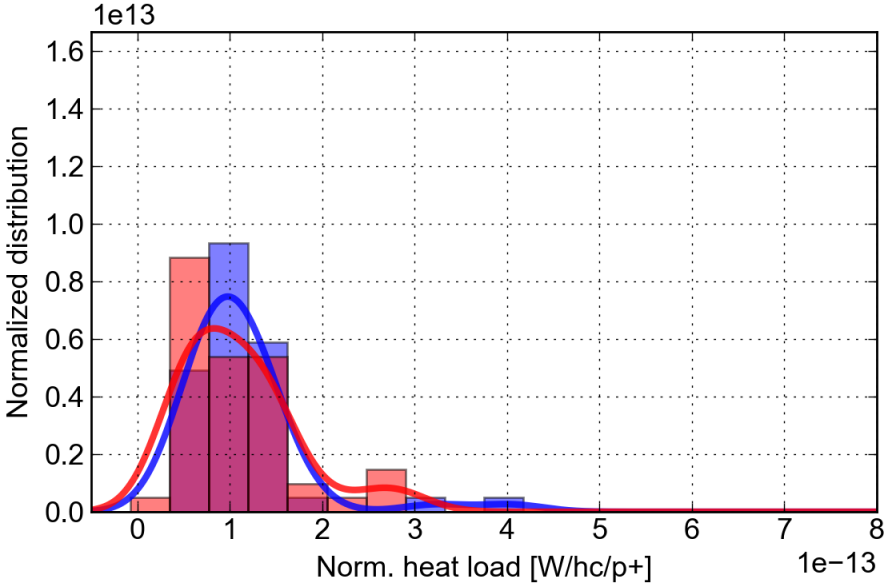




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S67 (avg) [W]	17.63	37.71
H.L. S67 (std) [W]	15.82	16.03
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

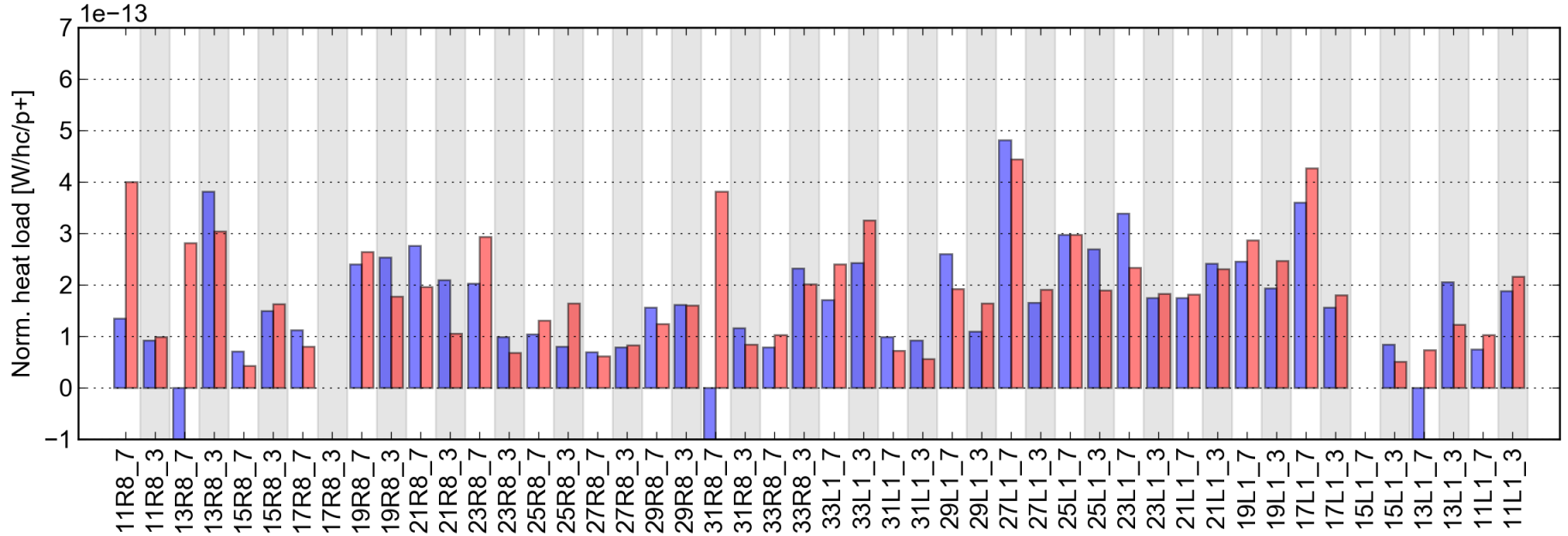
Sector 78, 48 cells, recalc. values

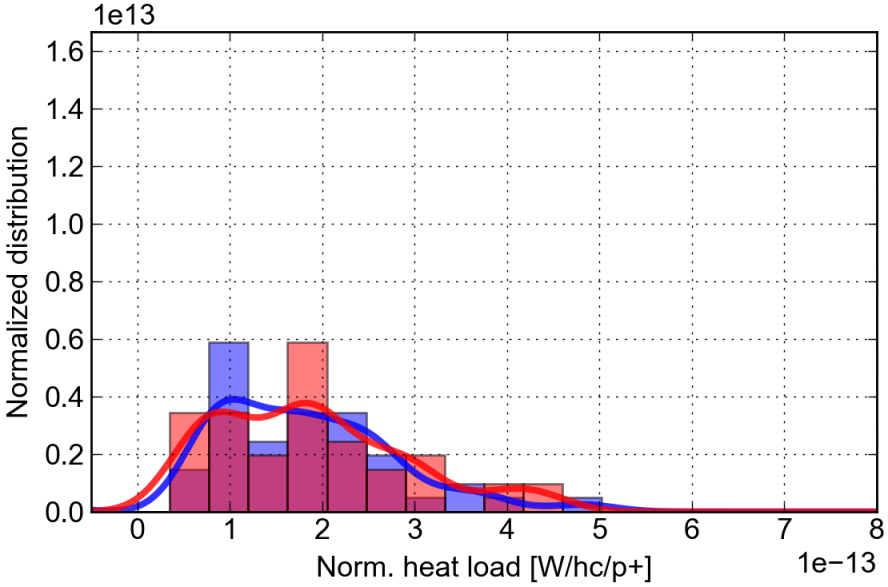




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S78 (avg) [W]	22.85	54.70
H.L. S78 (std) [W]	29.99	30.38
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

Sector 81, 48 cells, recalc. values

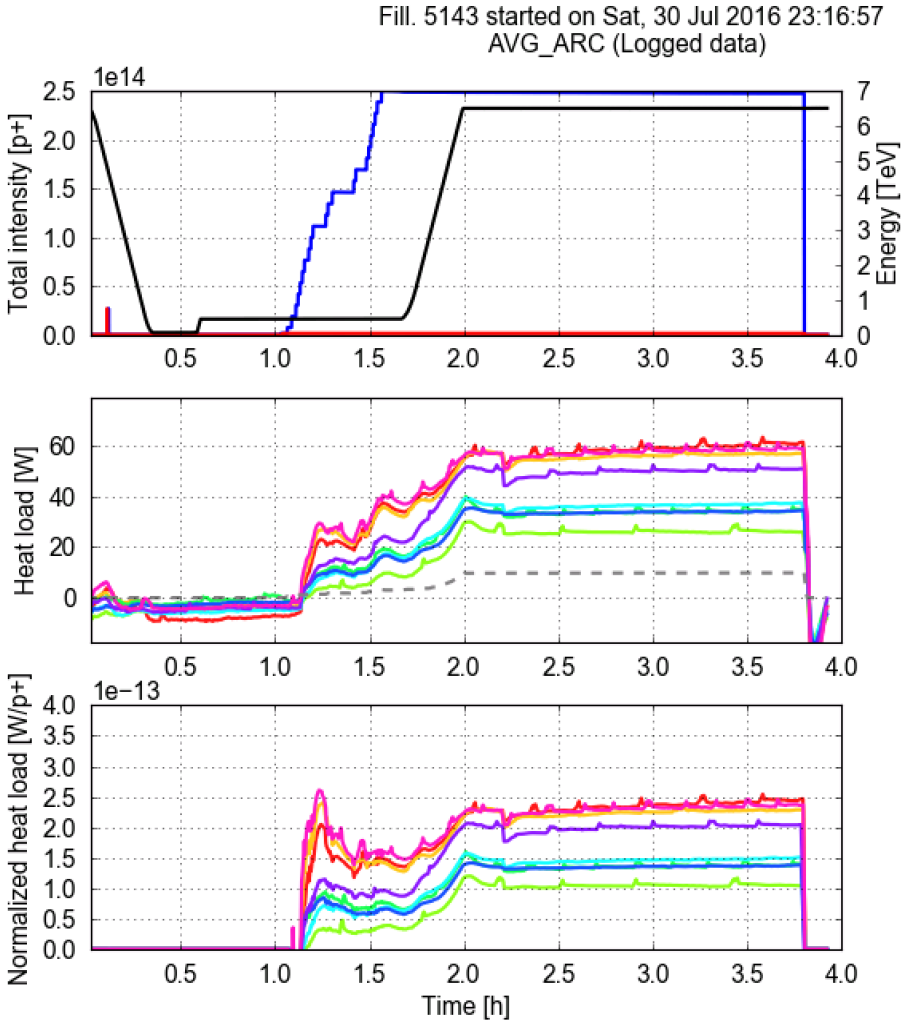


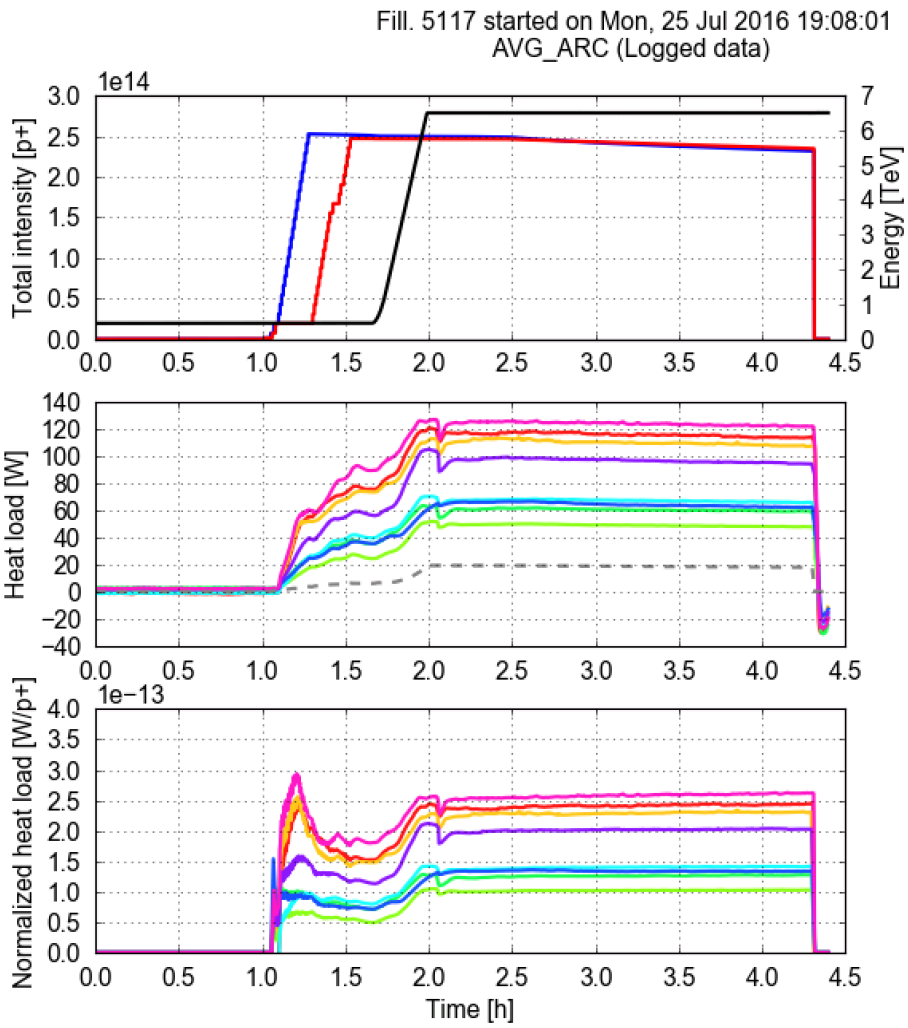


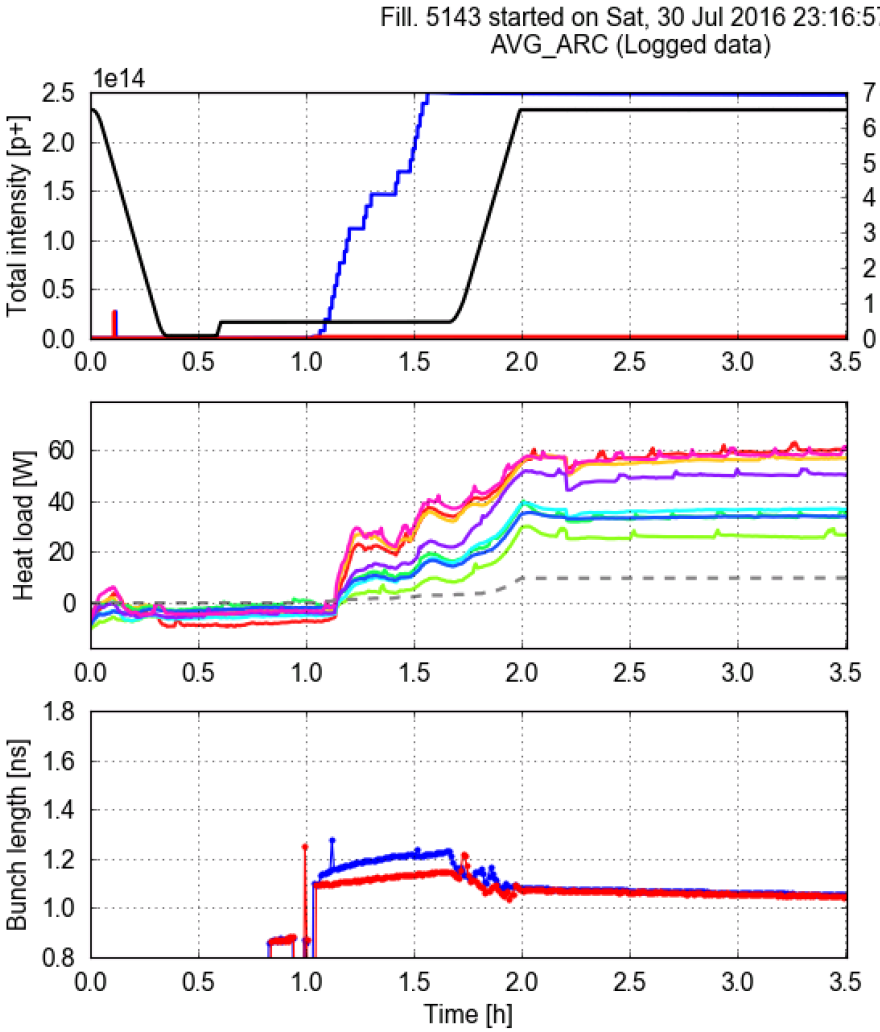
	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	1.65	1.65
Energy [GeV]	450	450
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.50e14/1.37e12	2.51e14/2.47e14
Bun.len. (B1/B2) [ns]	1.23/1.15	1.22/1.22
H.L. S81 (avg) [W]	38.54	94.00
H.L. S81 (std) [W]	38.19	51.24
H.L. exp. imped. [W]	2.99	5.96
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.70	0.50

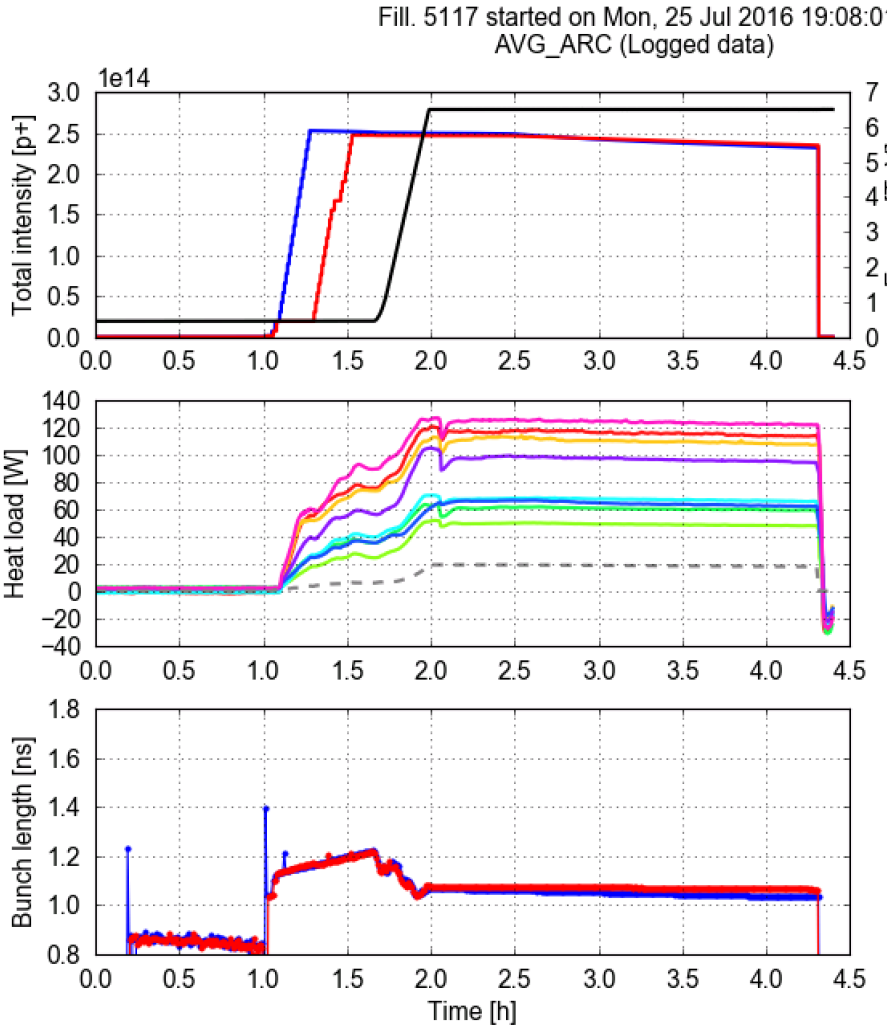
2016
6.5 TeV

Comparison made with ~2000b in trains of 2x48b (BCMS)

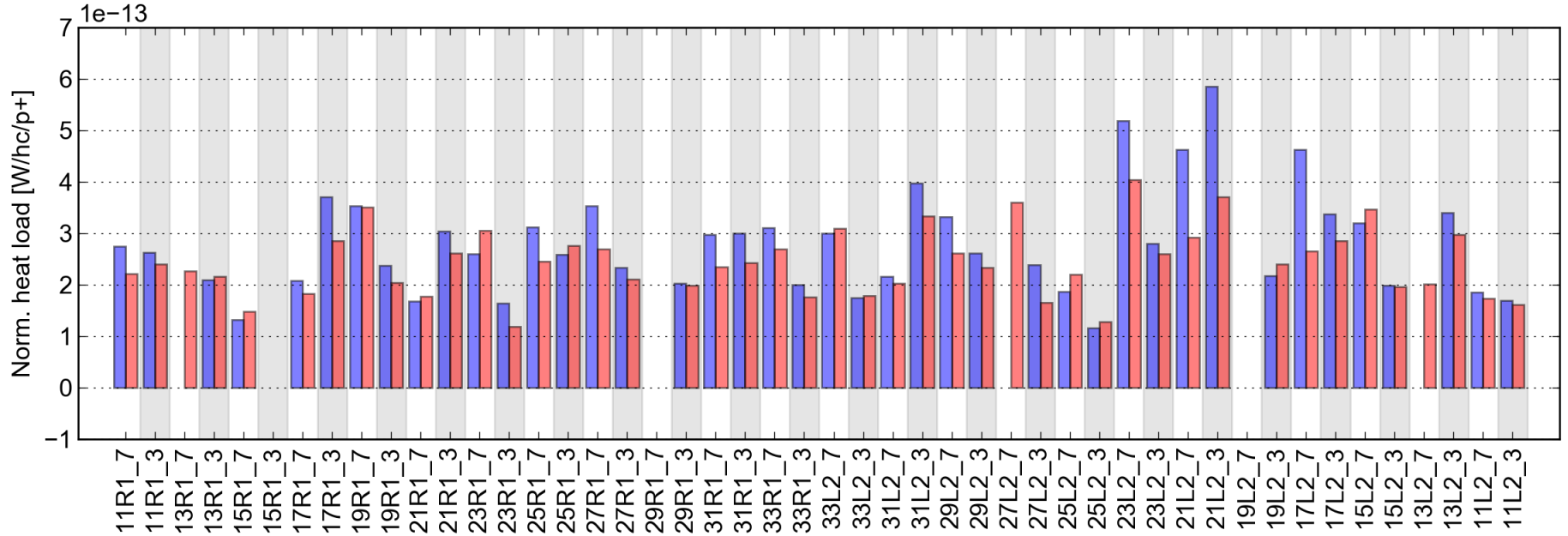

Fill. 5143 started on Sat, 30 Jul 2016 23:16:57
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

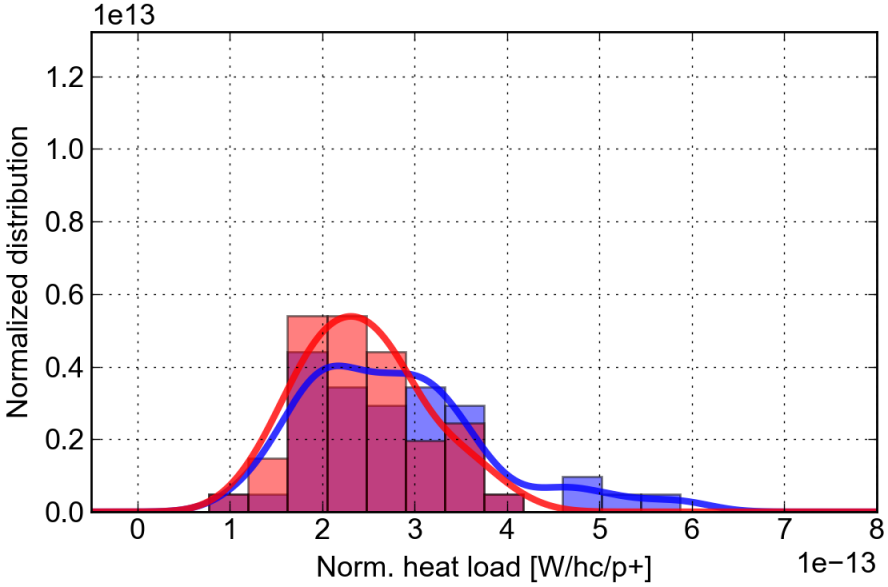

Fill. 5117 started on Mon, 25 Jul 2016 19:08:01
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5143 started on Sat, 30 Jul 2016 23:16:57
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5117 started on Mon, 25 Jul 2016 19:08:01
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

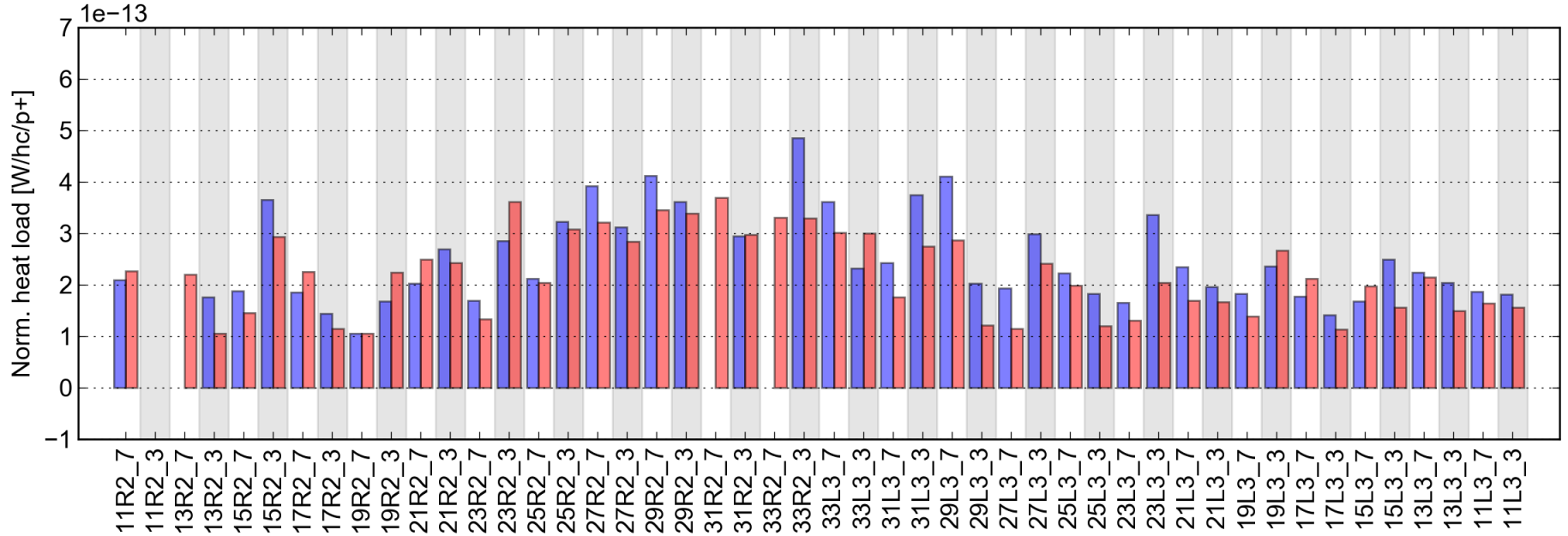
Sector 12, 48 cells, recalc. values

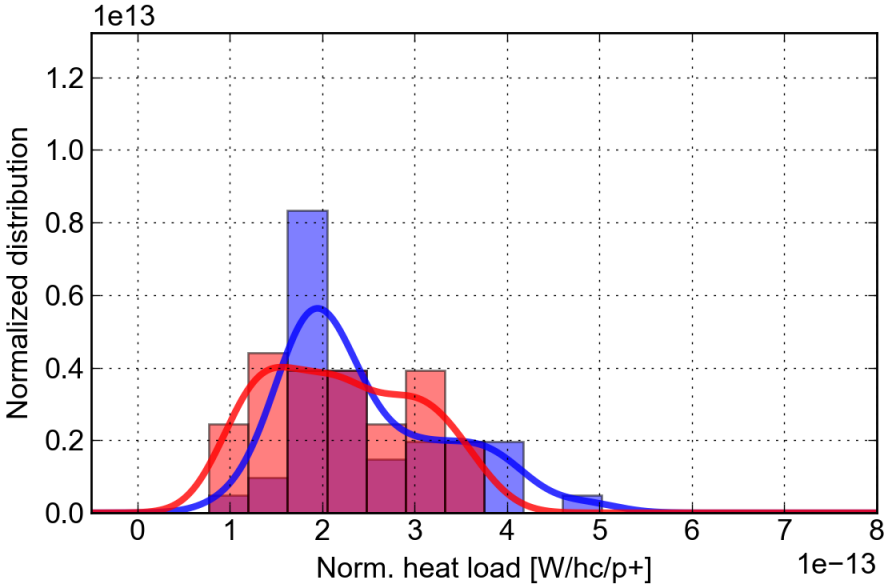




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S12 (avg) [W]	69.67	120.59
H.L. S12 (std) [W]	25.07	32.32
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

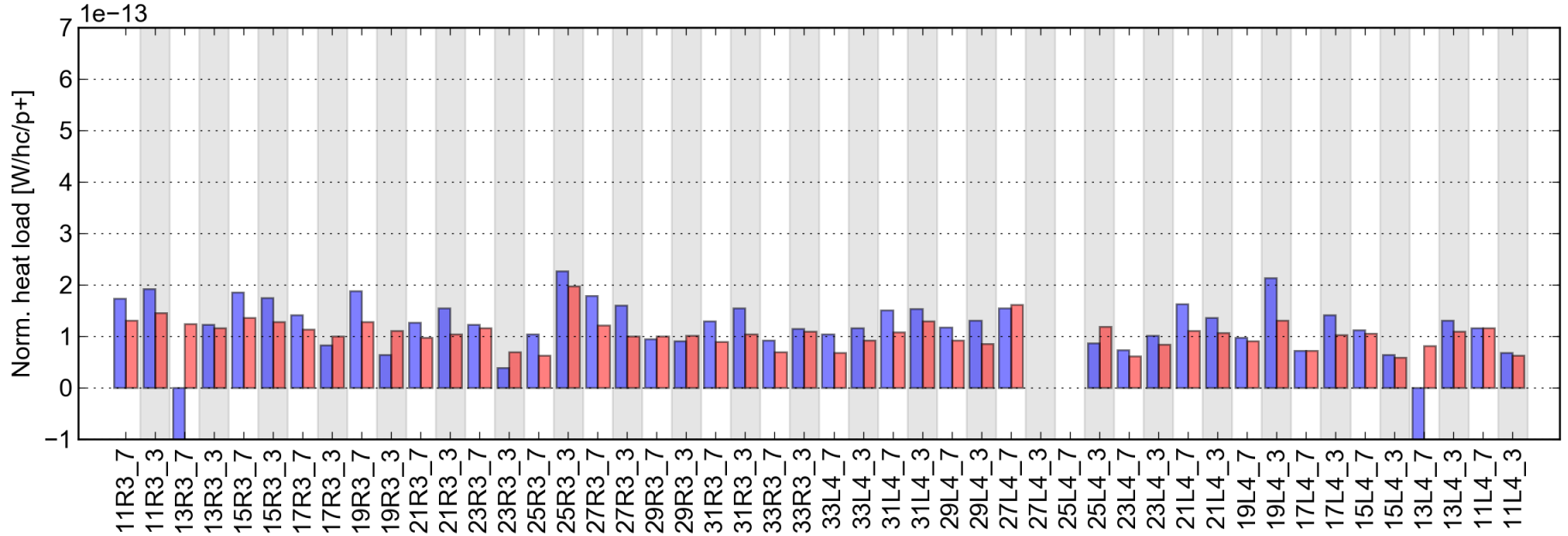
Sector 23, 48 cells, recalc. values

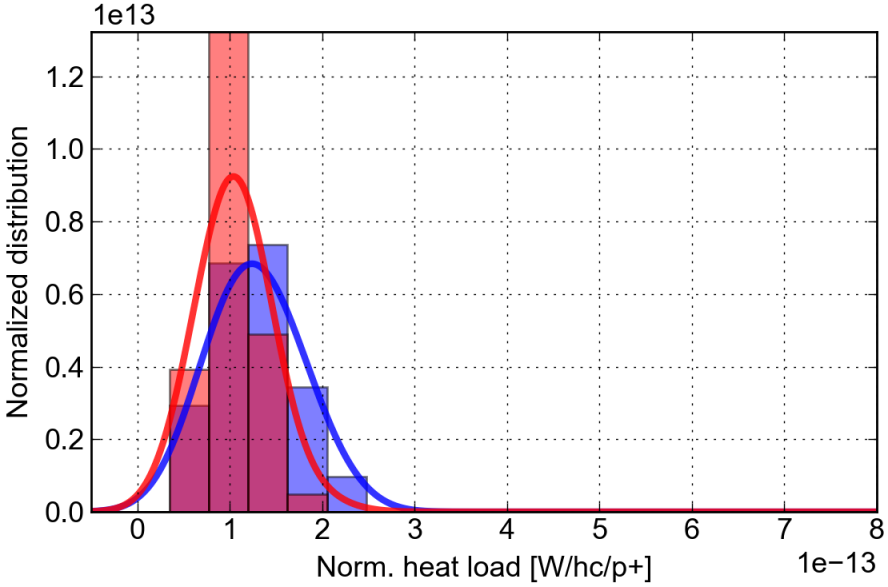




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S23 (avg) [W]	61.68	109.23
H.L. S23 (std) [W]	21.55	38.66
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

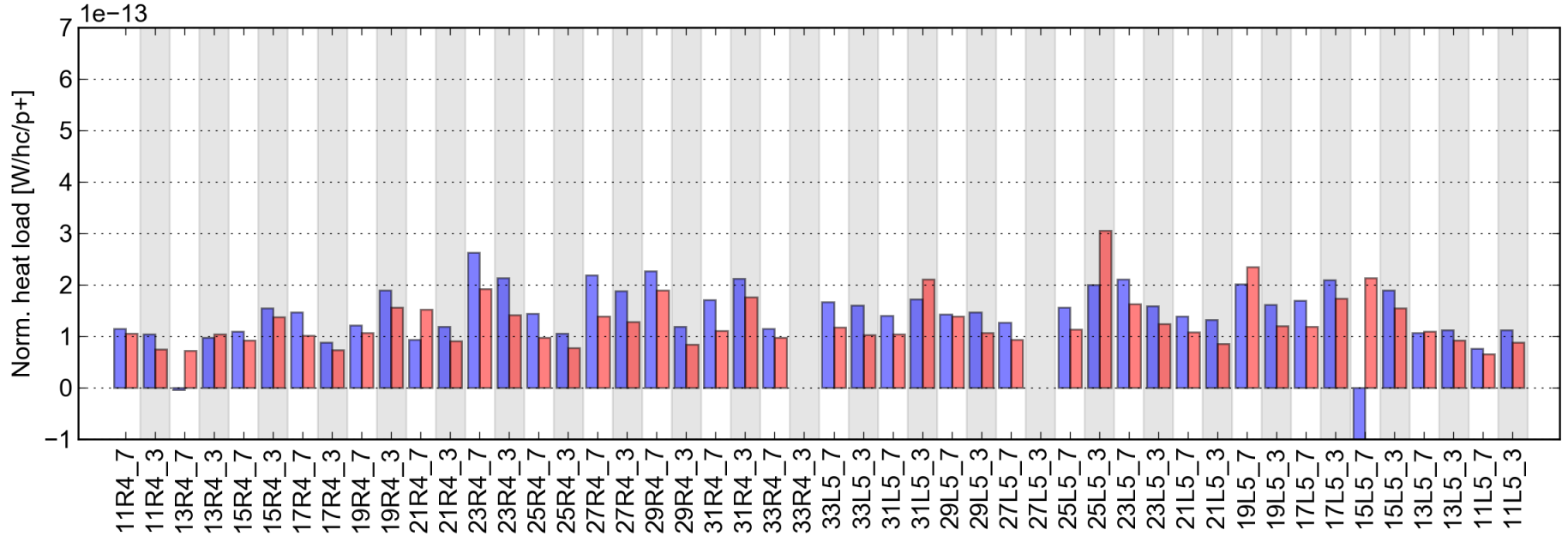
Sector 34, 48 cells, recalc. values

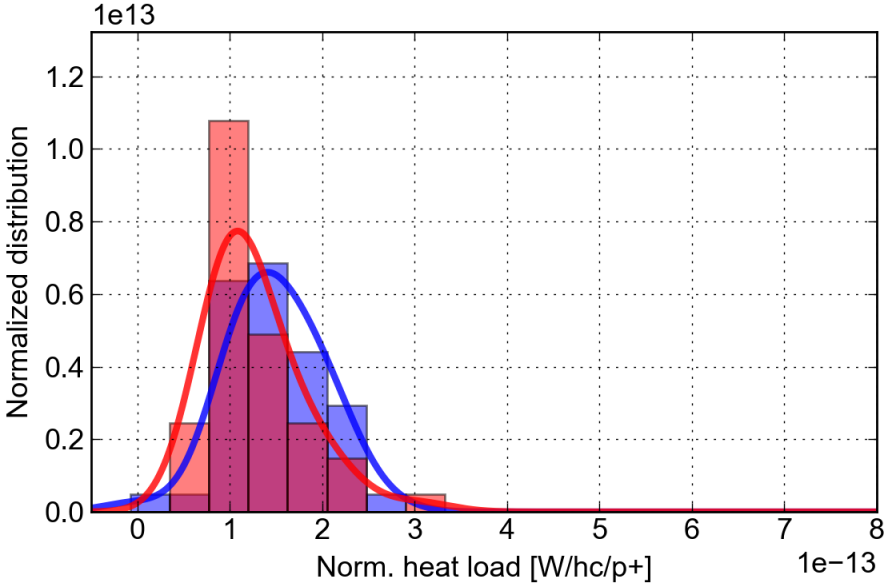




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S34 (avg) [W]	26.64	52.12
H.L. S34 (std) [W]	27.10	13.37
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

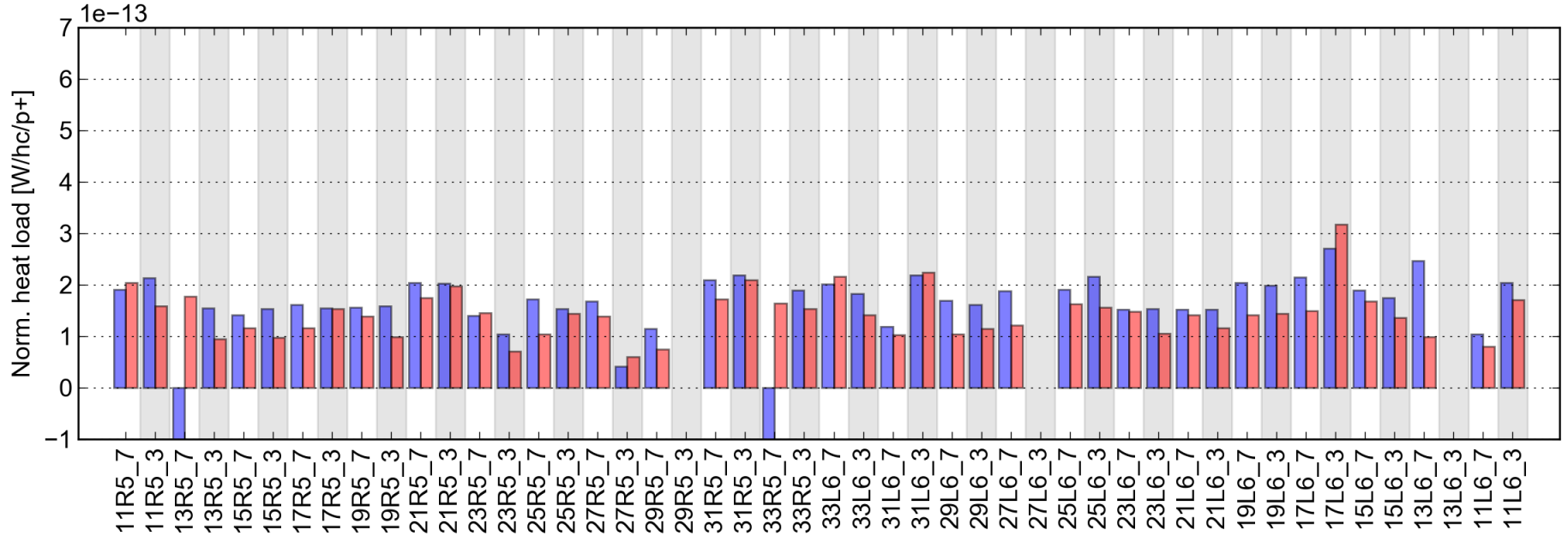
Sector 45, 48 cells, recalc. values

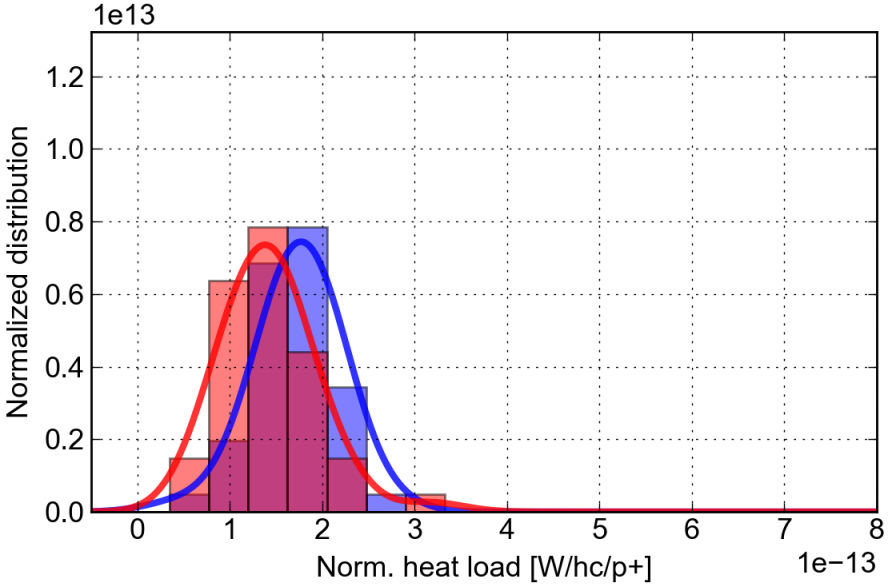




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S45 (avg) [W]	34.11	63.06
H.L. S45 (std) [W]	24.10	23.77
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

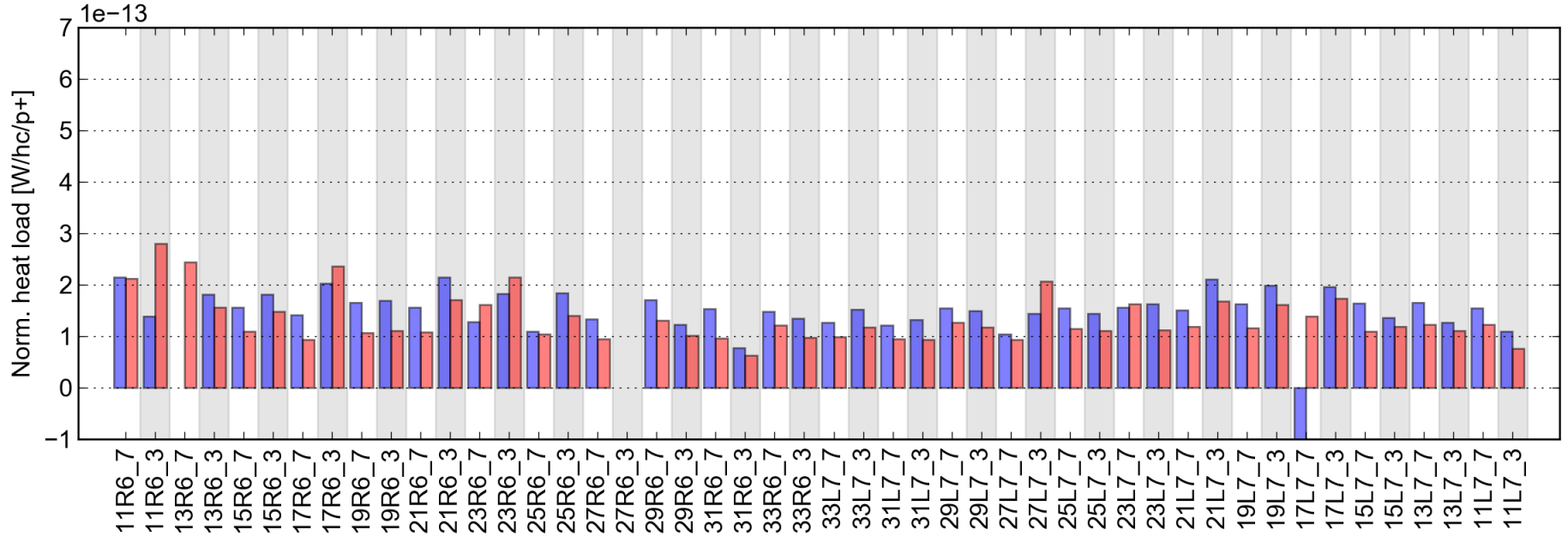
Sector 56, 48 cells, recalc. values

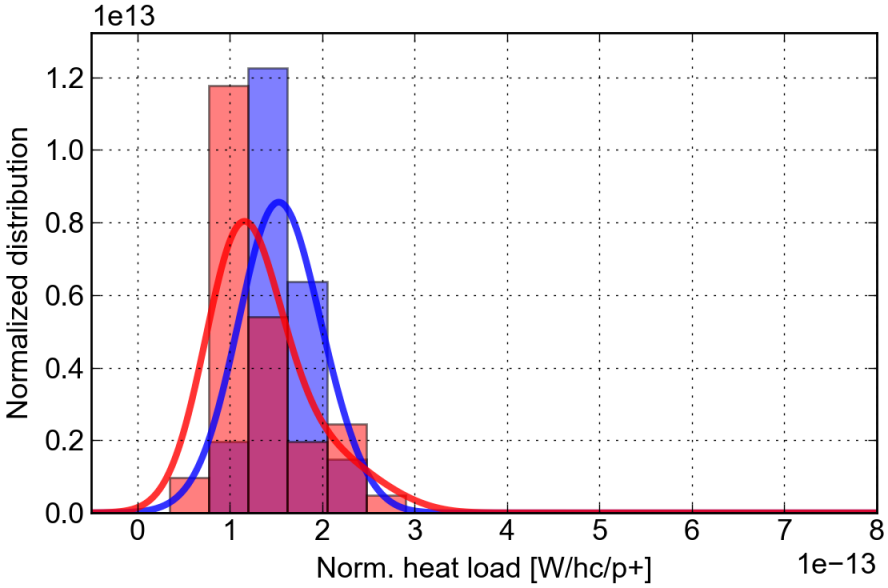




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S56 (avg) [W]	37.31	70.87
H.L. S56 (std) [W]	30.01	23.11
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

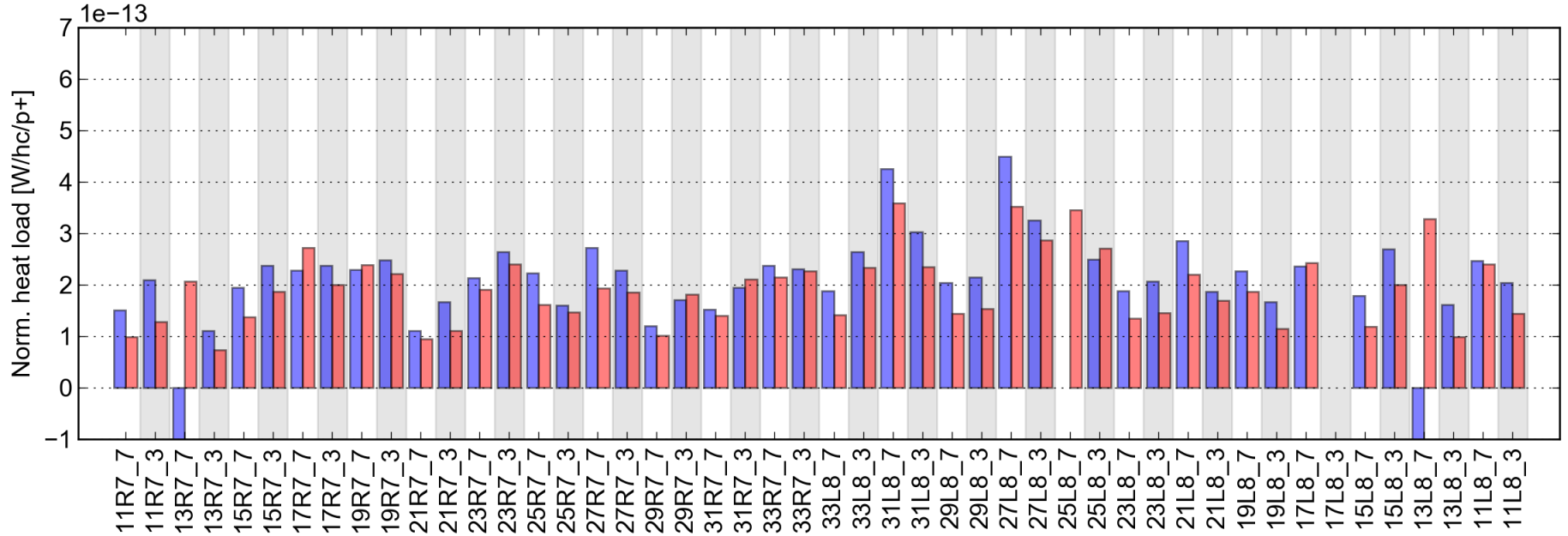
Sector 67, 48 cells, recalc. values

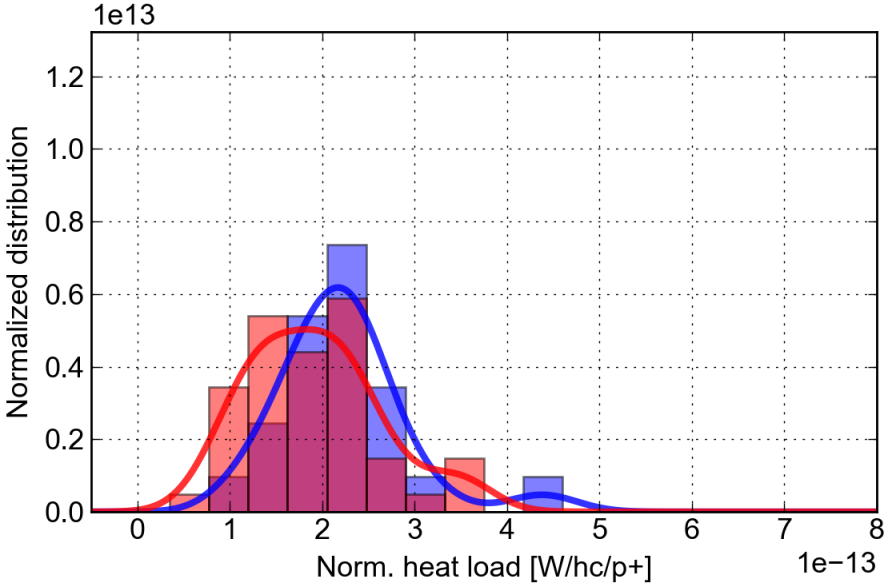




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S67 (avg) [W]	36.02	66.35
H.L. S67 (std) [W]	18.79	22.60
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

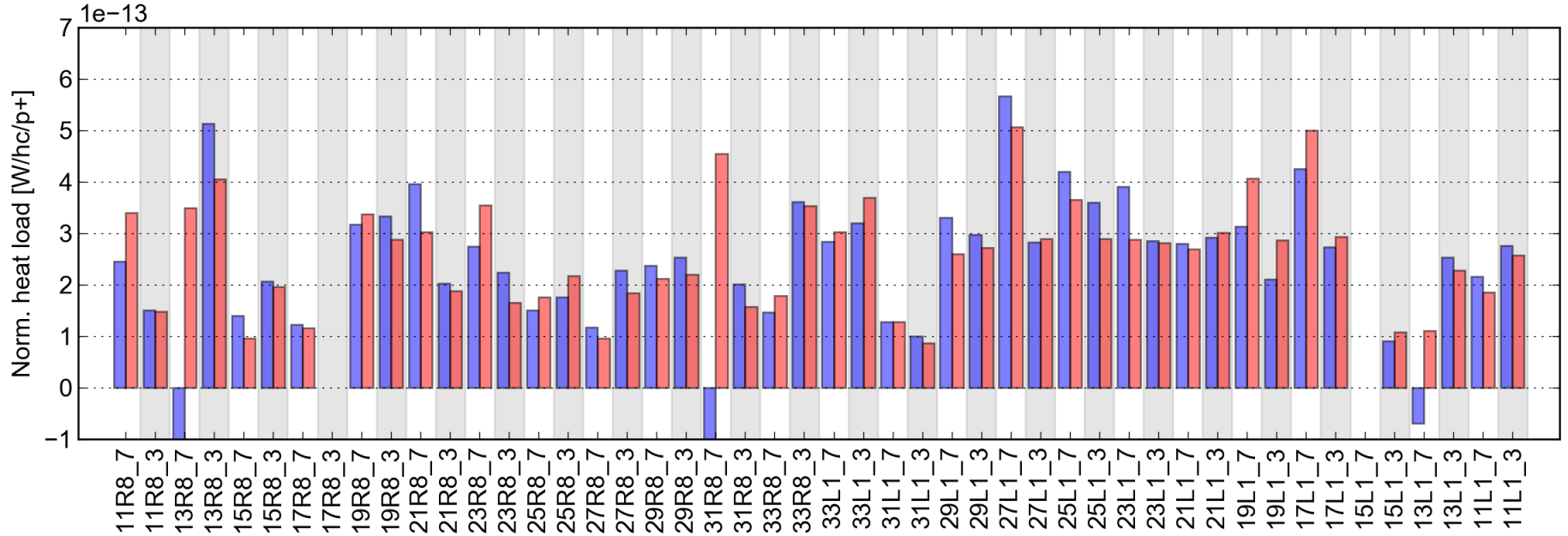
Sector 78, 48 cells, recalc. values

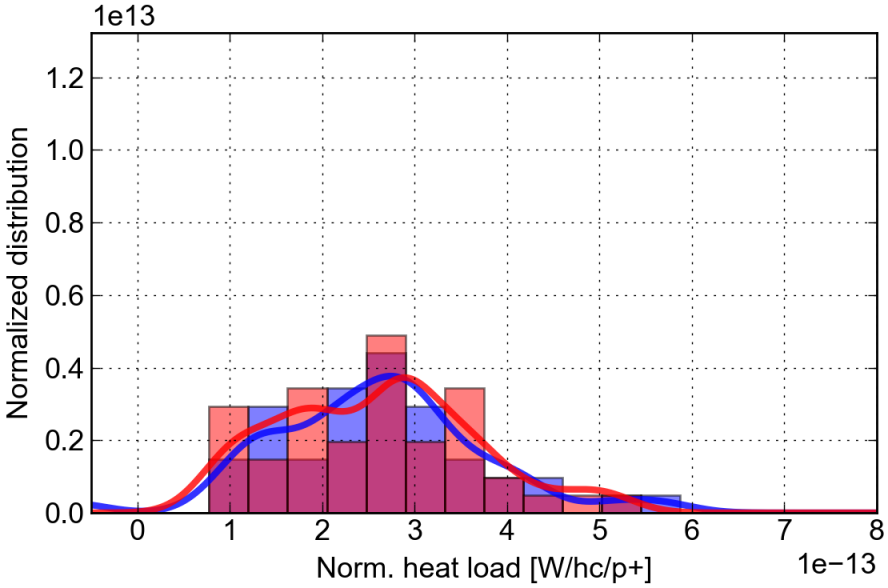




	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S78 (avg) [W]	49.09	95.25
H.L. S78 (std) [W]	34.06	34.52
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

Sector 81, 48 cells, recalc. values

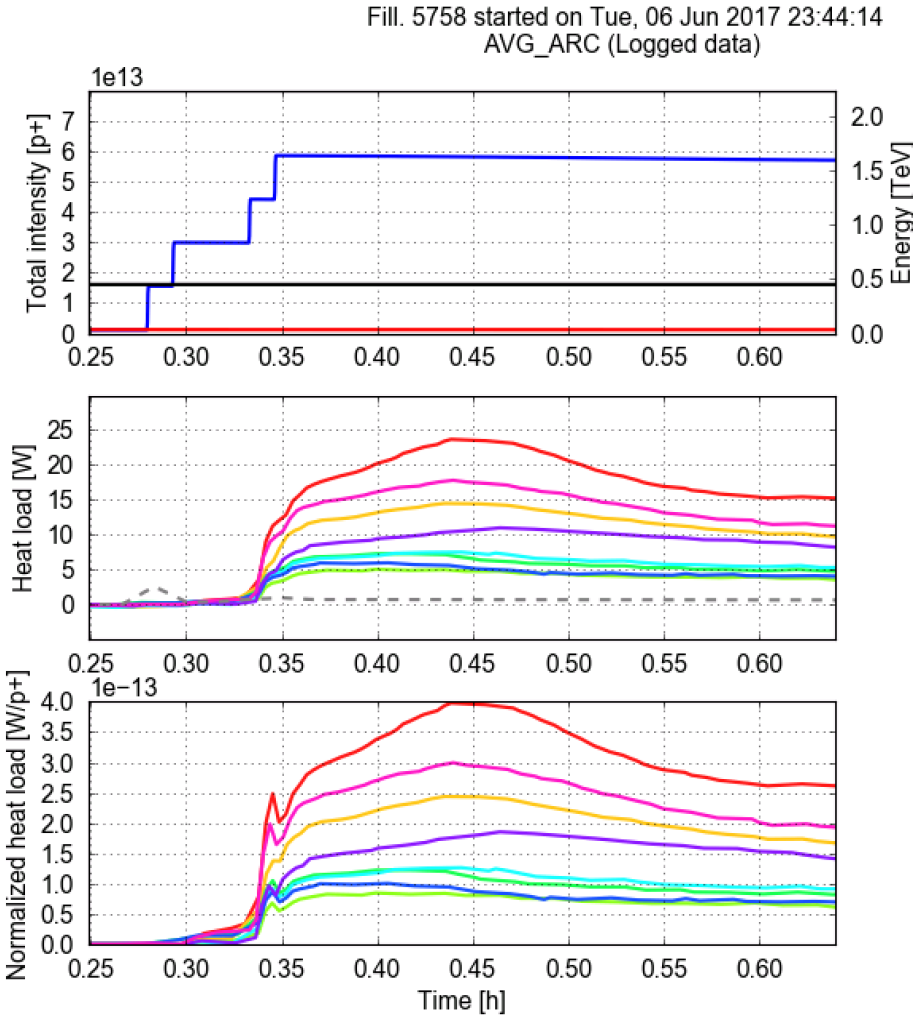


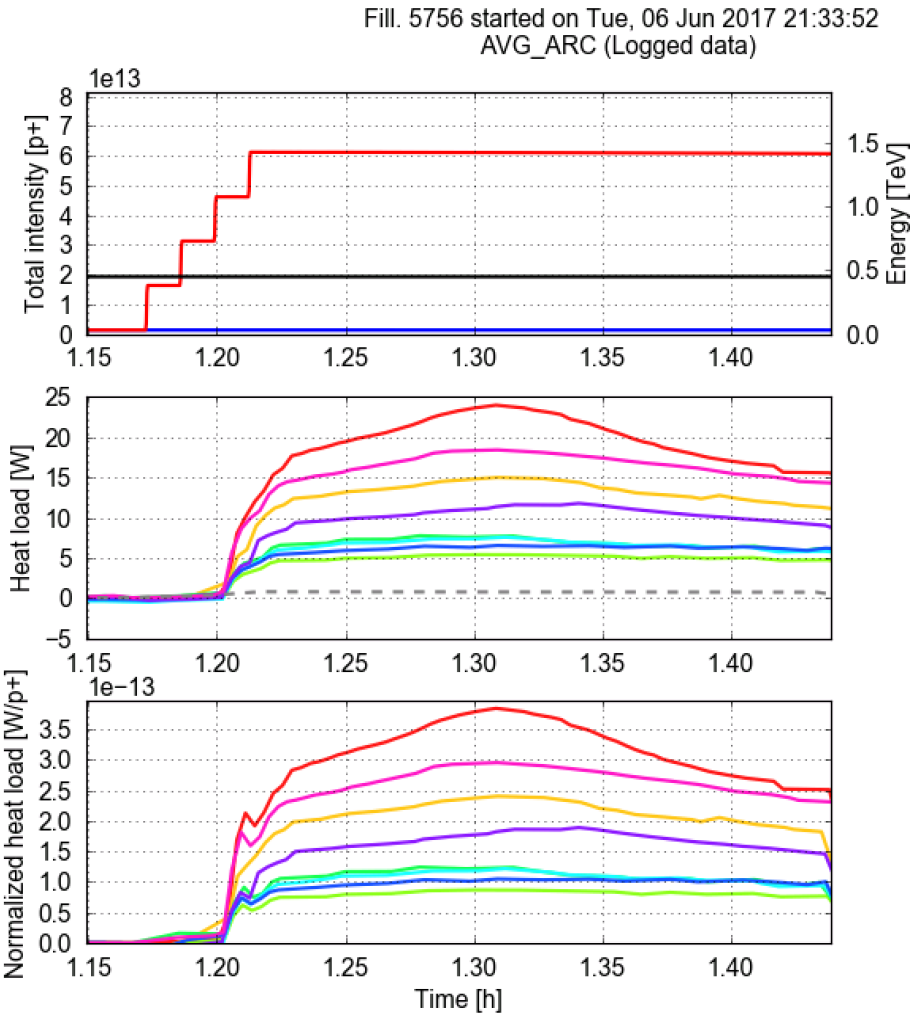


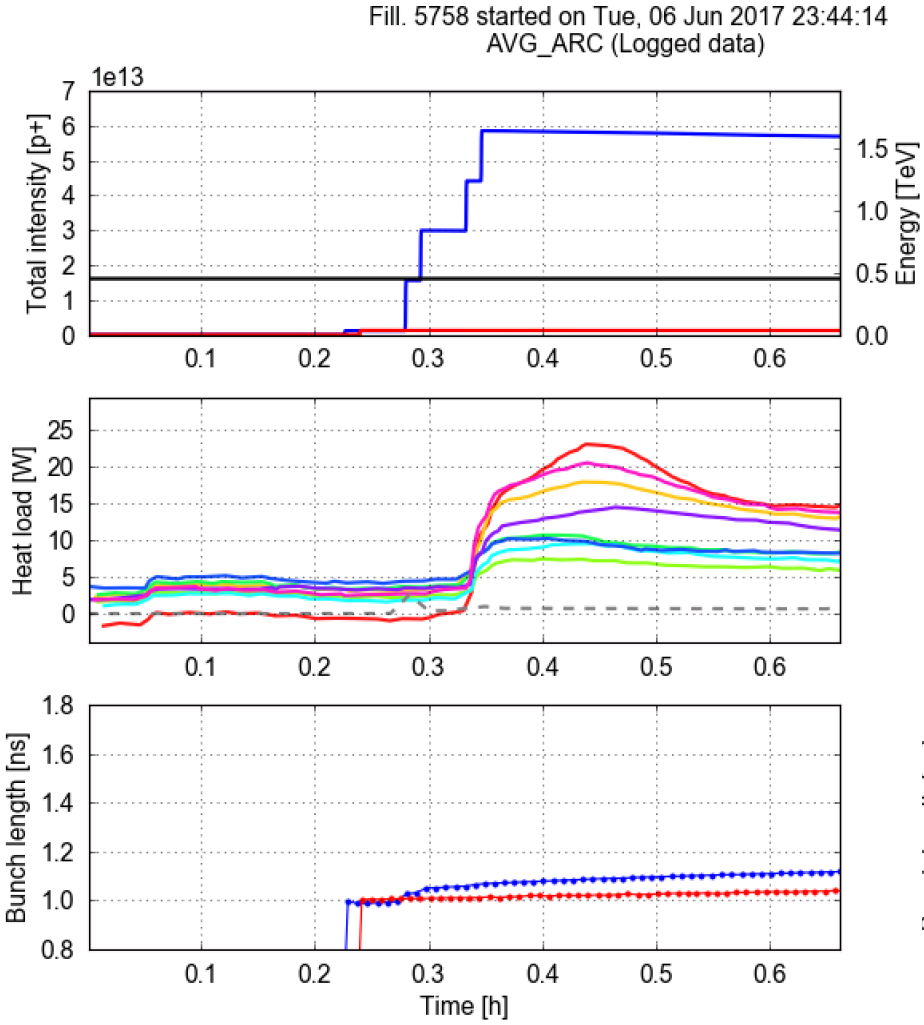
	B1 only	B1 and B2
Fill	5143	5117
Started on	30 Jul 2016 23:16	25 Jul 2016 19:08
T_sample [h]	2.50	2.45
Energy [GeV]	6500	6500
N_bunches (B1/B2)	2076/12	2076/2076
Intensity (B1/B2) [p]	2.48e14/1.37e12	2.49e14/2.46e14
Bun.len. (B1/B2) [ns]	1.07/1.06	1.06/1.07
H.L. S81 (avg) [W]	57.74	128.49
H.L. S81 (std) [W]	41.88	52.18
H.L. exp. imped. [W]	4.41	8.77
H.L. exp. synrad [W]	5.31	10.54
T_nobeam [h]	0.70	0.50

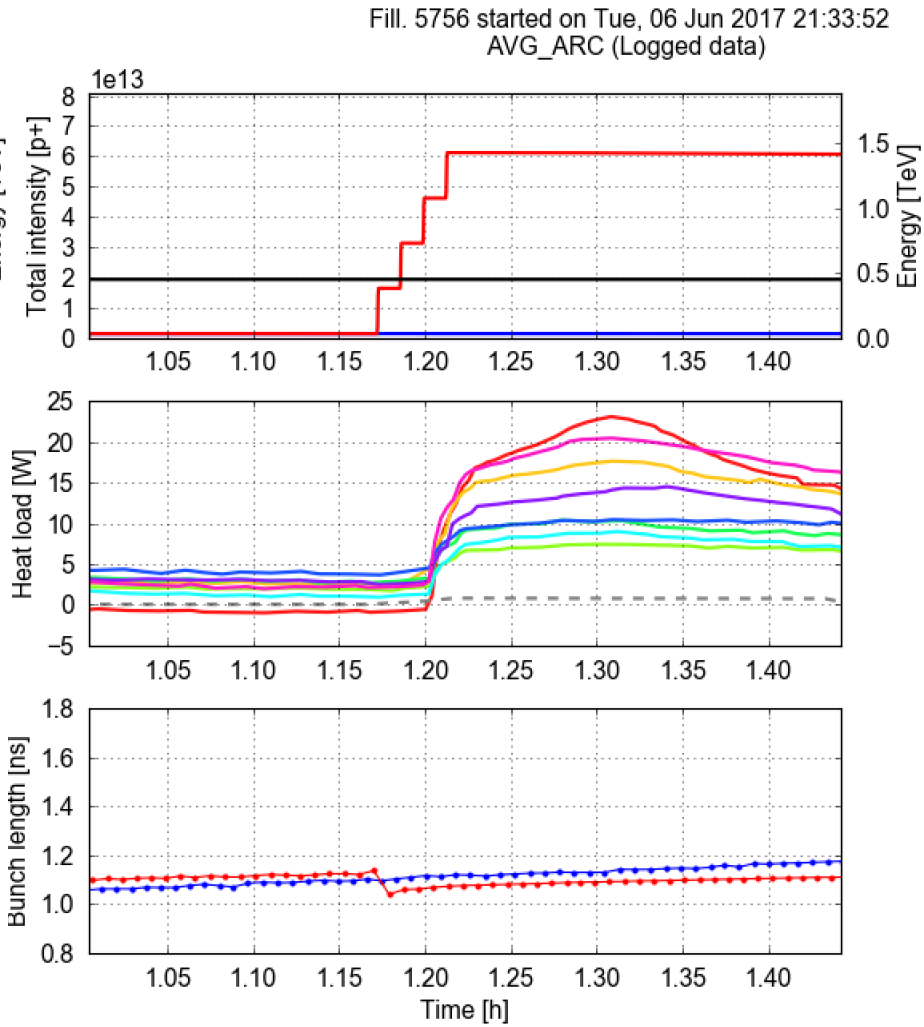
2017
450 GeV 1

Comparison made with 588b in trains of 144b (spaced by 1 us)

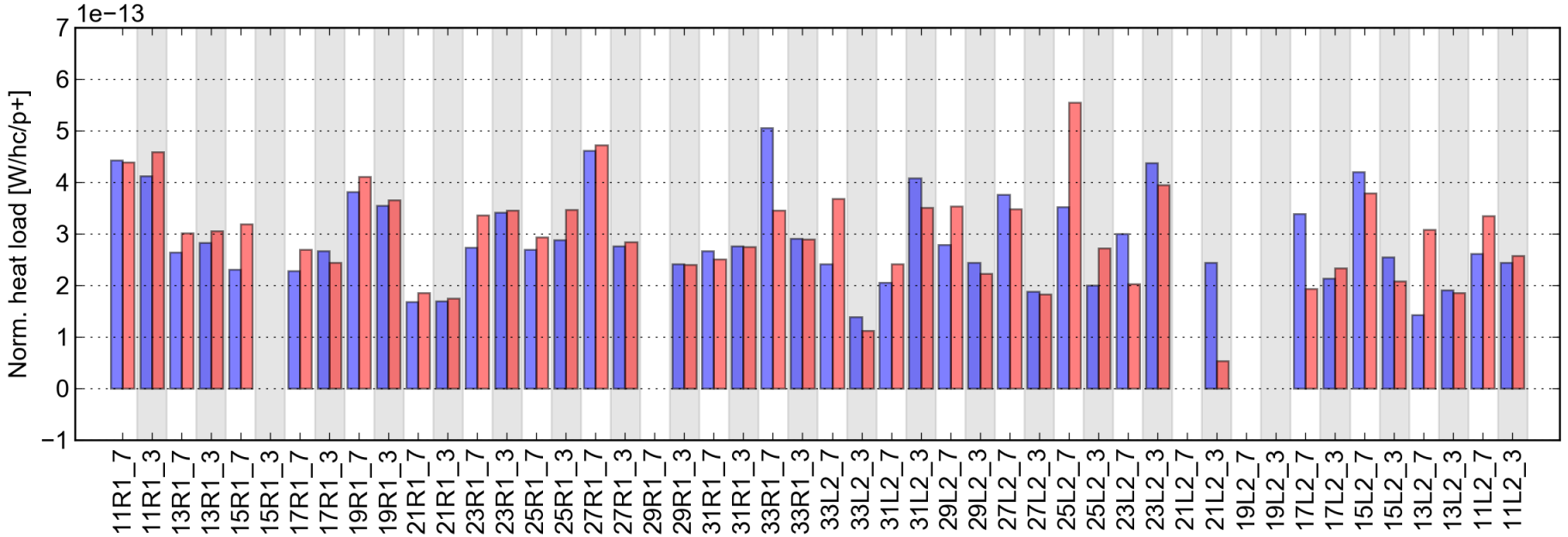

Fill. 5758 started on Tue, 06 Jun 2017 23:44:14
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

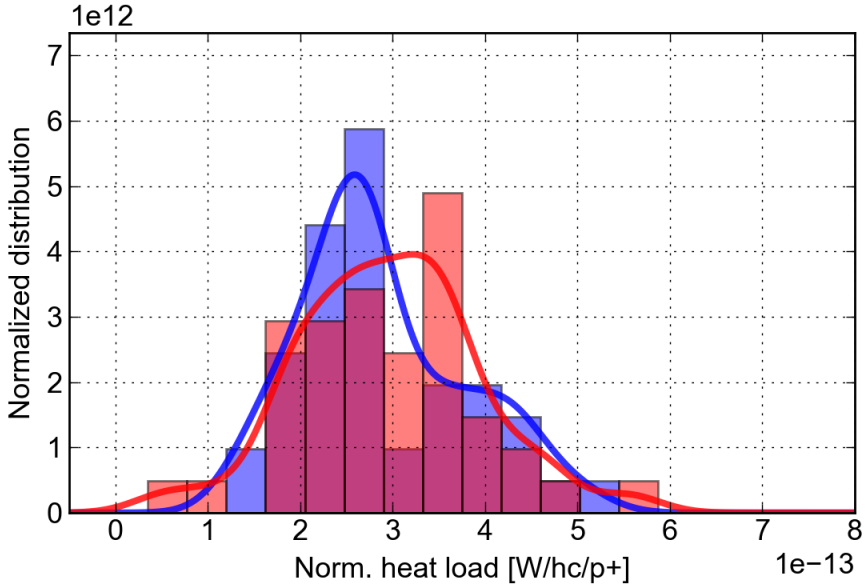

Fill. 5756 started on Tue, 06 Jun 2017 21:33:52
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5758 started on Tue, 06 Jun 2017 23:44:14
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5756 started on Tue, 06 Jun 2017 21:33:52
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

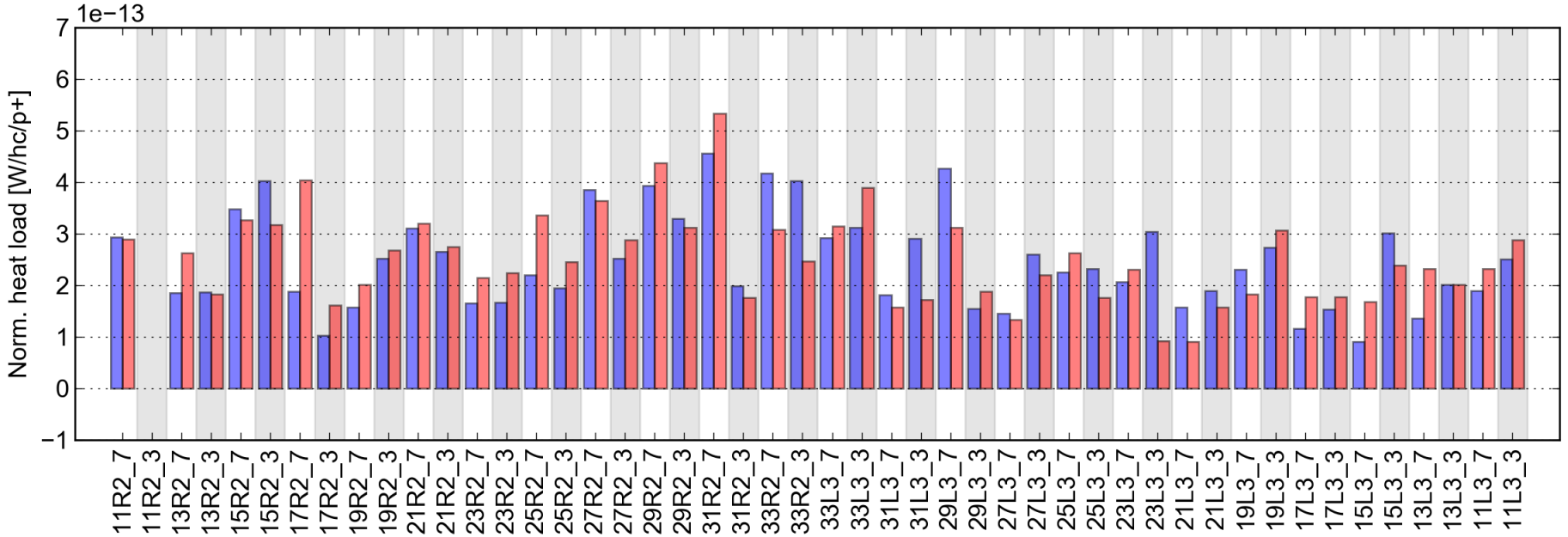
Sector 12, 48 cells, recalc. values

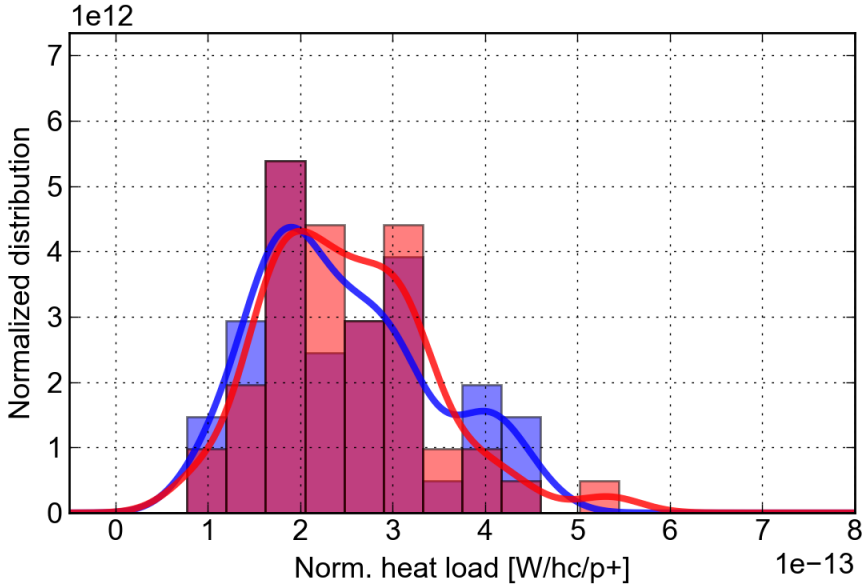




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S12 (avg) [W]	16.73	18.35
H.L. S12 (std) [W]	5.12	5.98
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

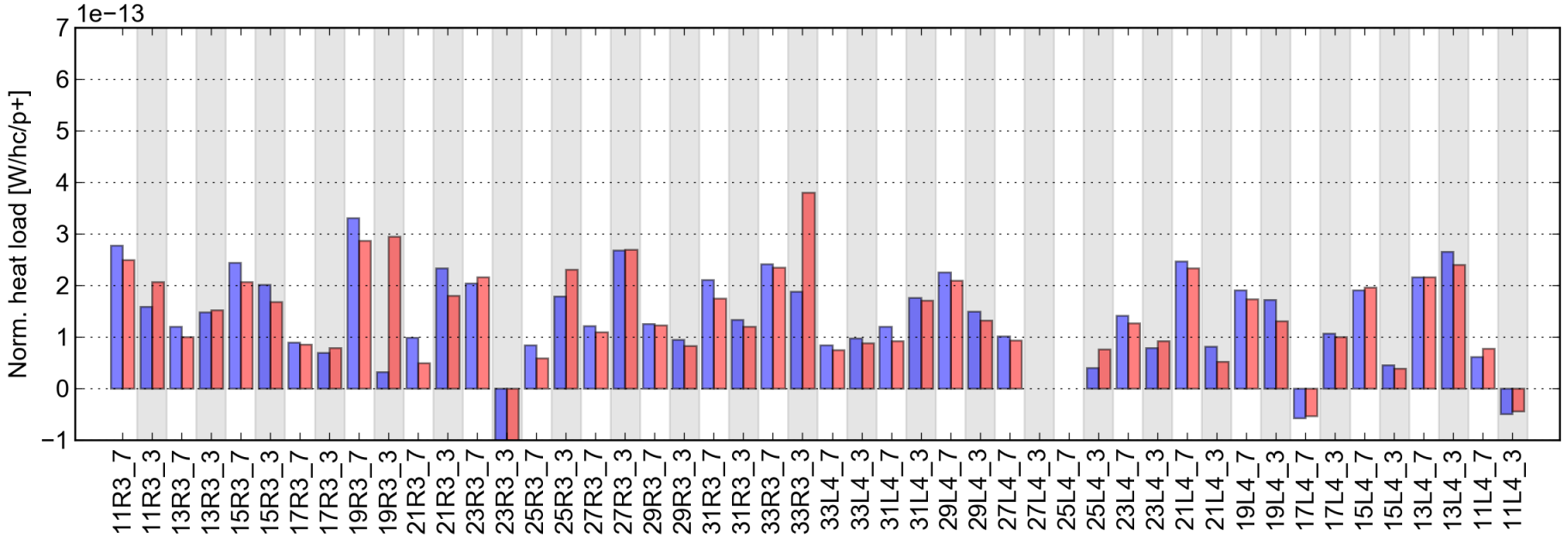
Sector 23, 48 cells, recalc. values

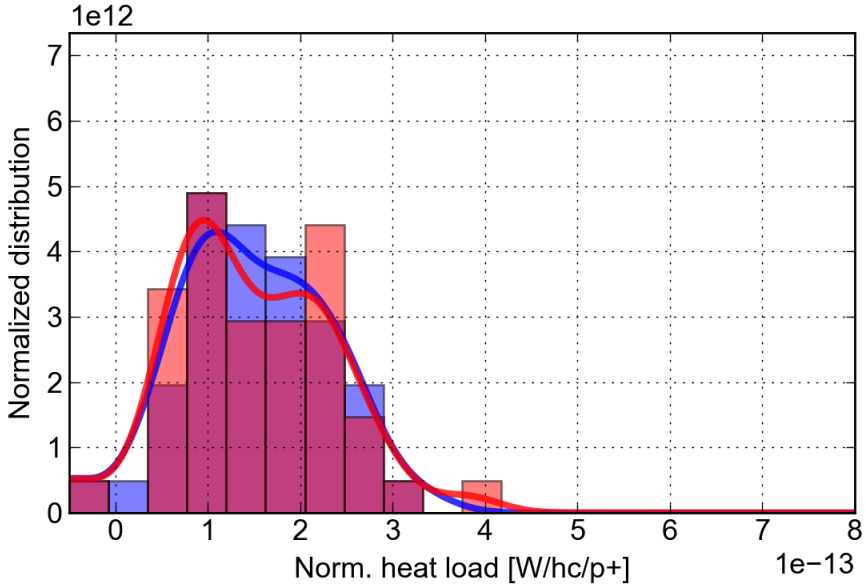




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S23 (avg) [W]	14.36	15.59
H.L. S23 (std) [W]	5.33	5.45
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

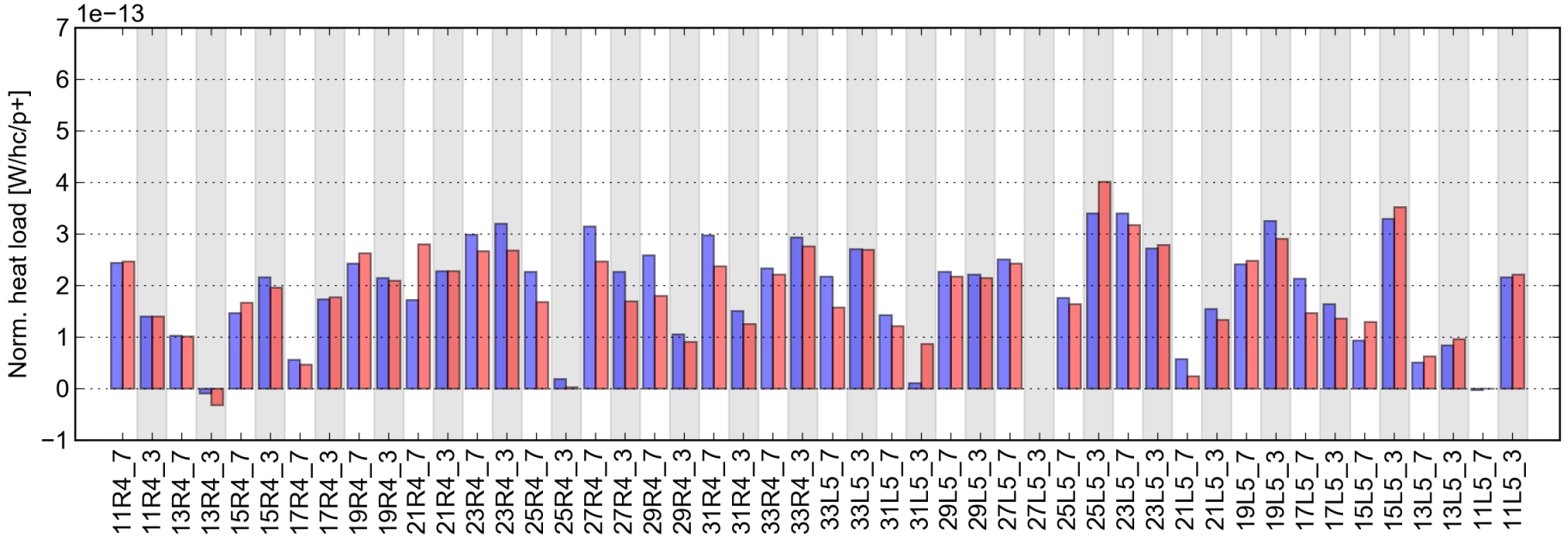
Sector 34, 48 cells, recalc. values

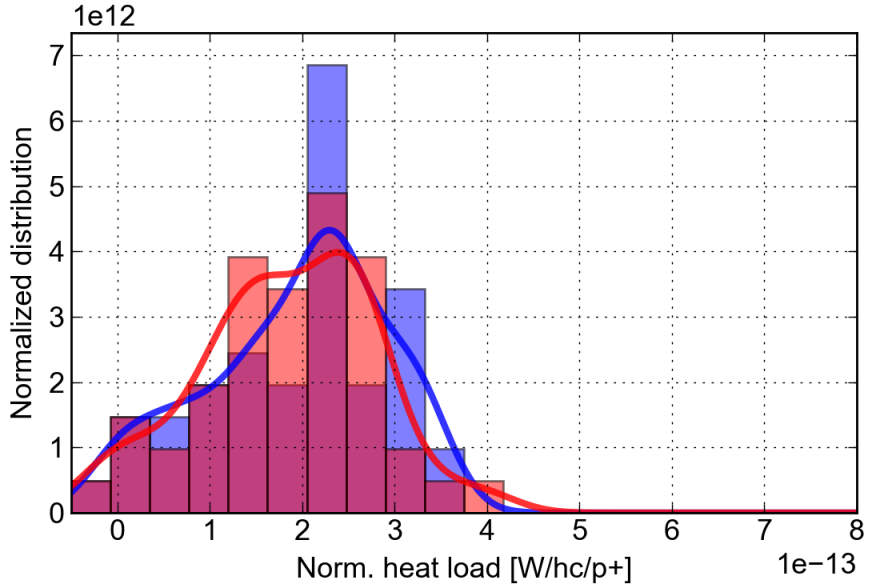




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S34 (avg) [W]	7.95	8.56
H.L. S34 (std) [W]	5.87	6.36
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

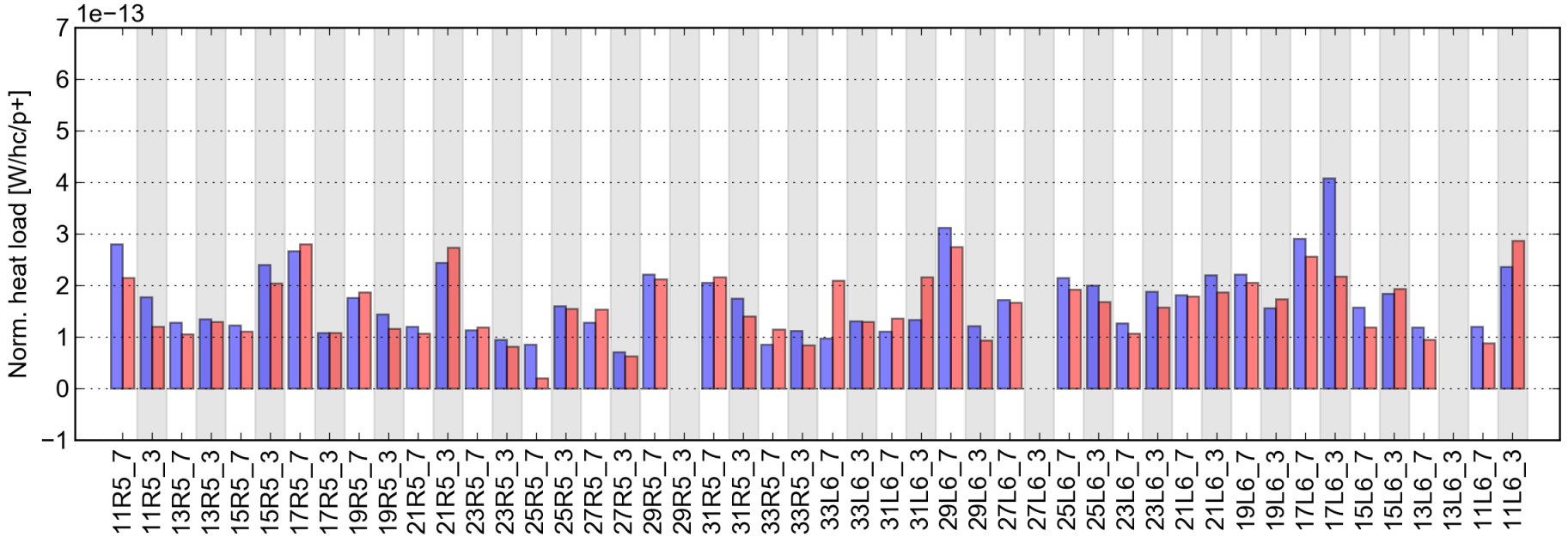
Sector 45, 48 cells, recalc. values

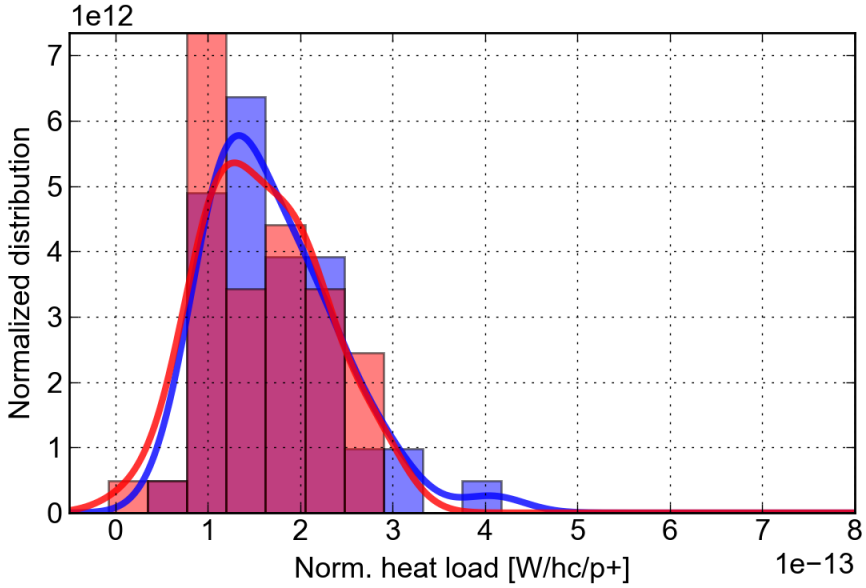




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S45 (avg) [W]	11.23	11.36
H.L. S45 (std) [W]	5.56	5.79
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

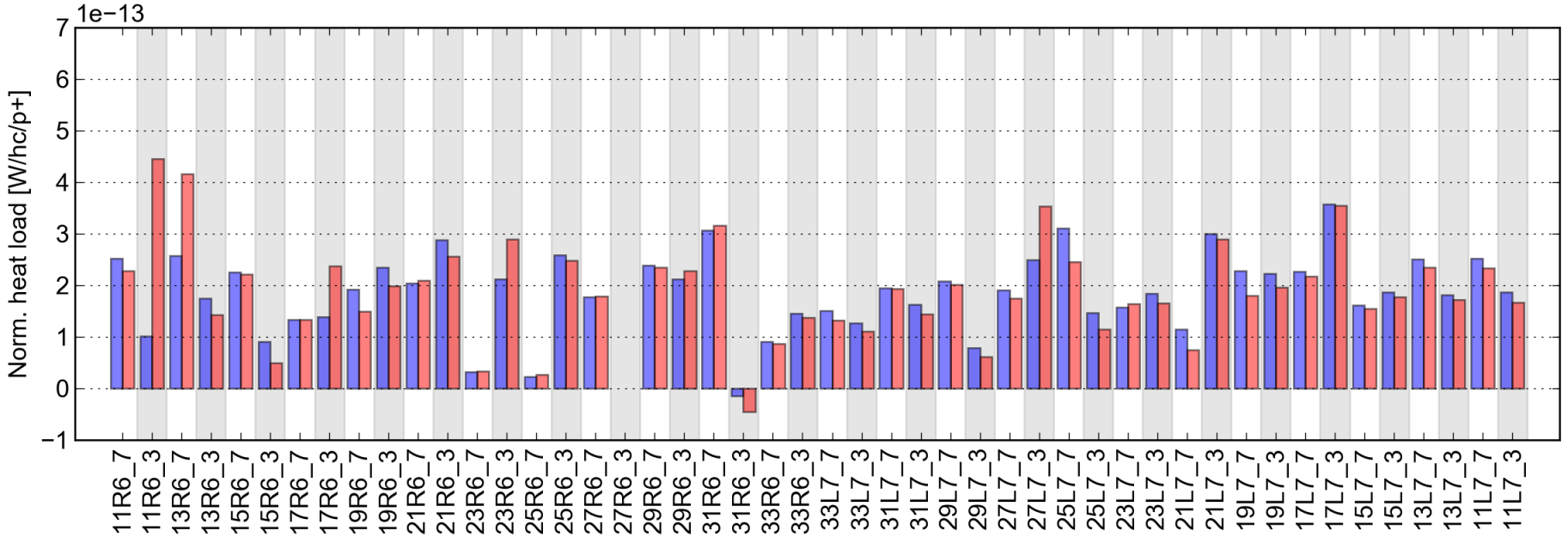
Sector 56, 48 cells, recalc. values

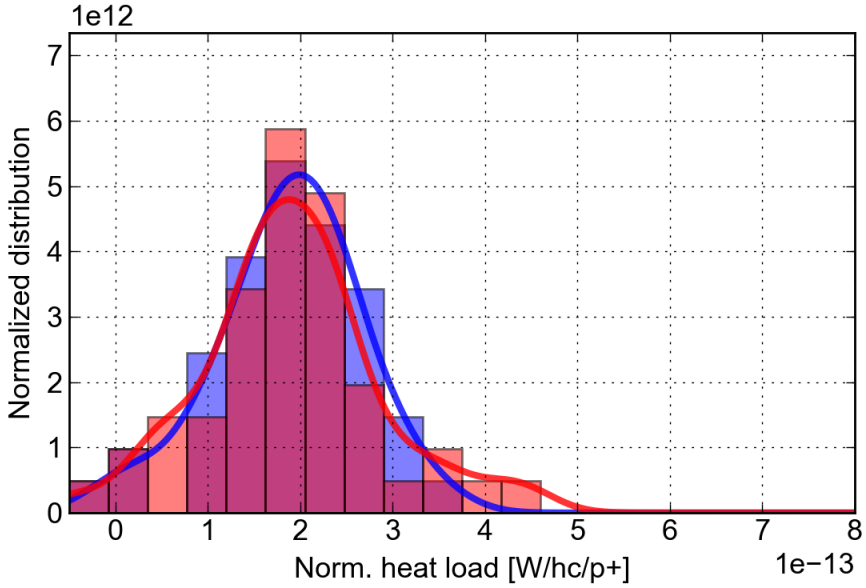




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S56 (avg) [W]	9.96	9.90
H.L. S56 (std) [W]	3.99	3.84
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

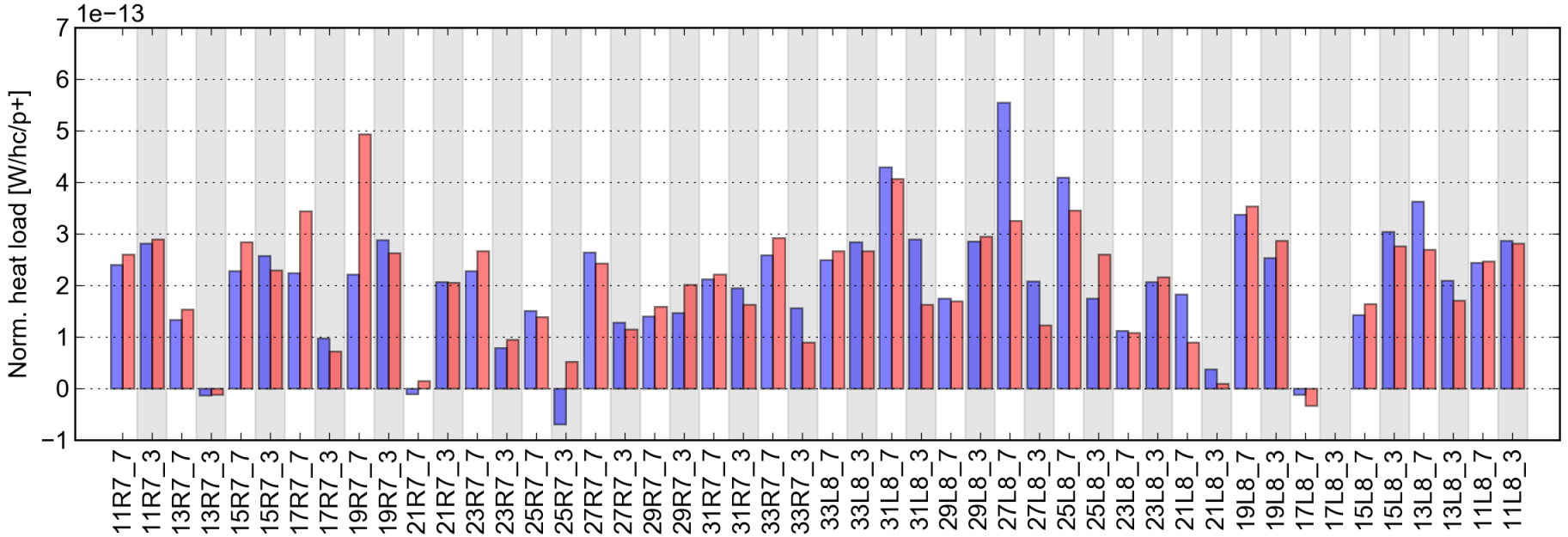
Sector 67, 48 cells, recalc. values

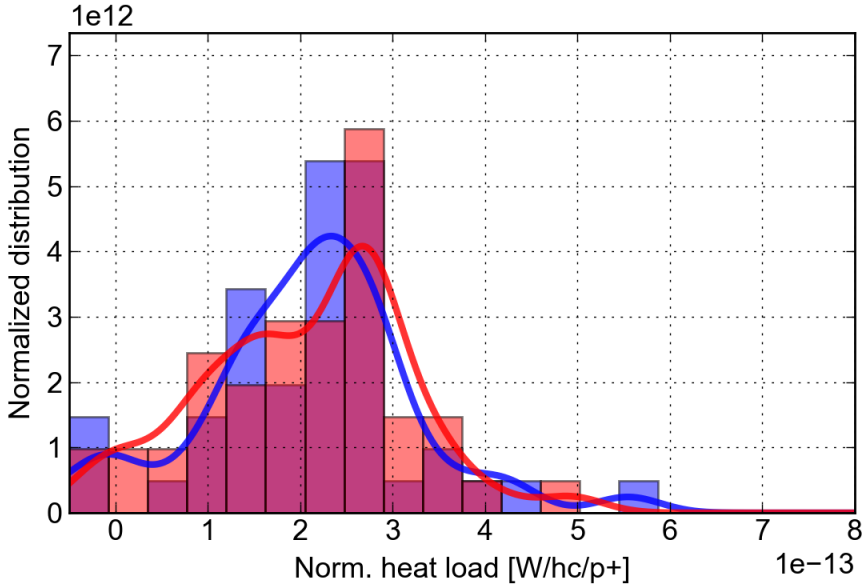




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S67 (avg) [W]	10.91	11.82
H.L. S67 (std) [W]	4.42	5.92
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

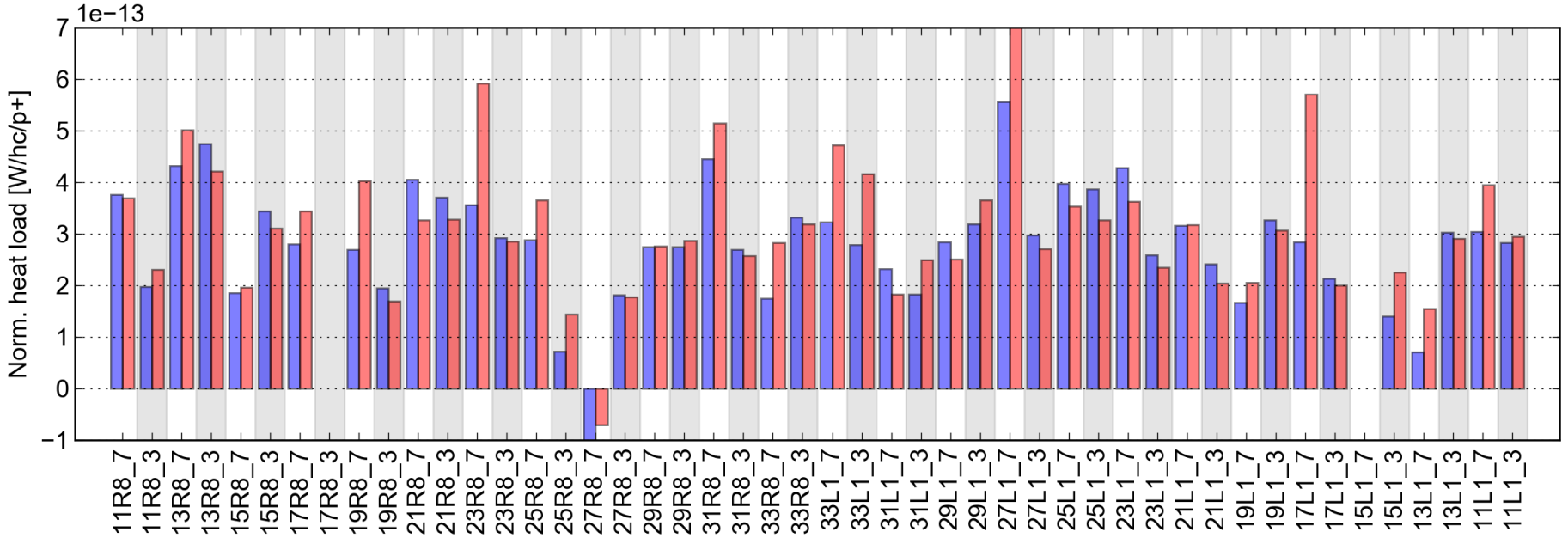
Sector 78, 48 cells, recalc. values

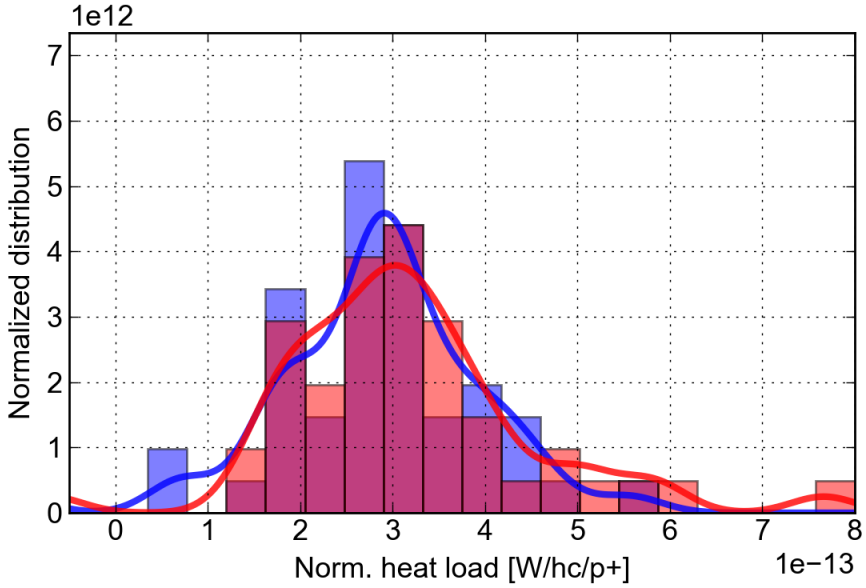




	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S78 (avg) [W]	12.10	12.82
H.L. S78 (std) [W]	6.75	6.86
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

Sector 81, 48 cells, recalc. values

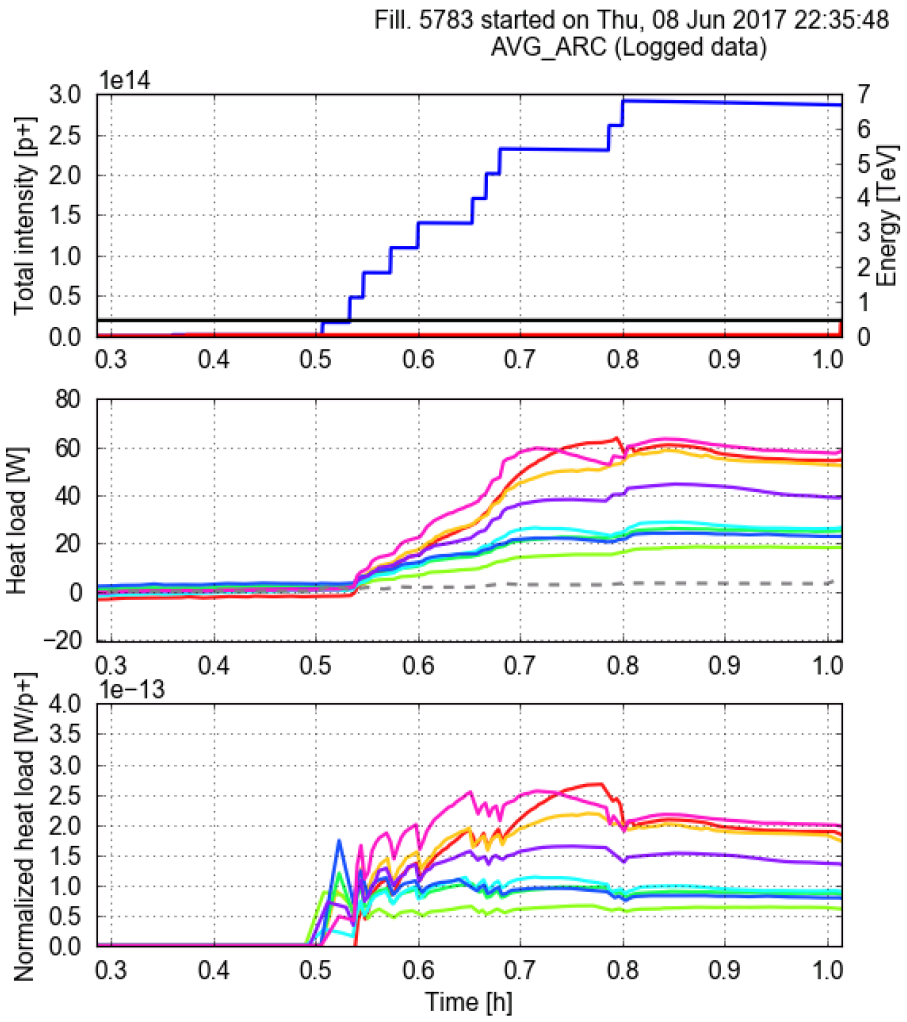


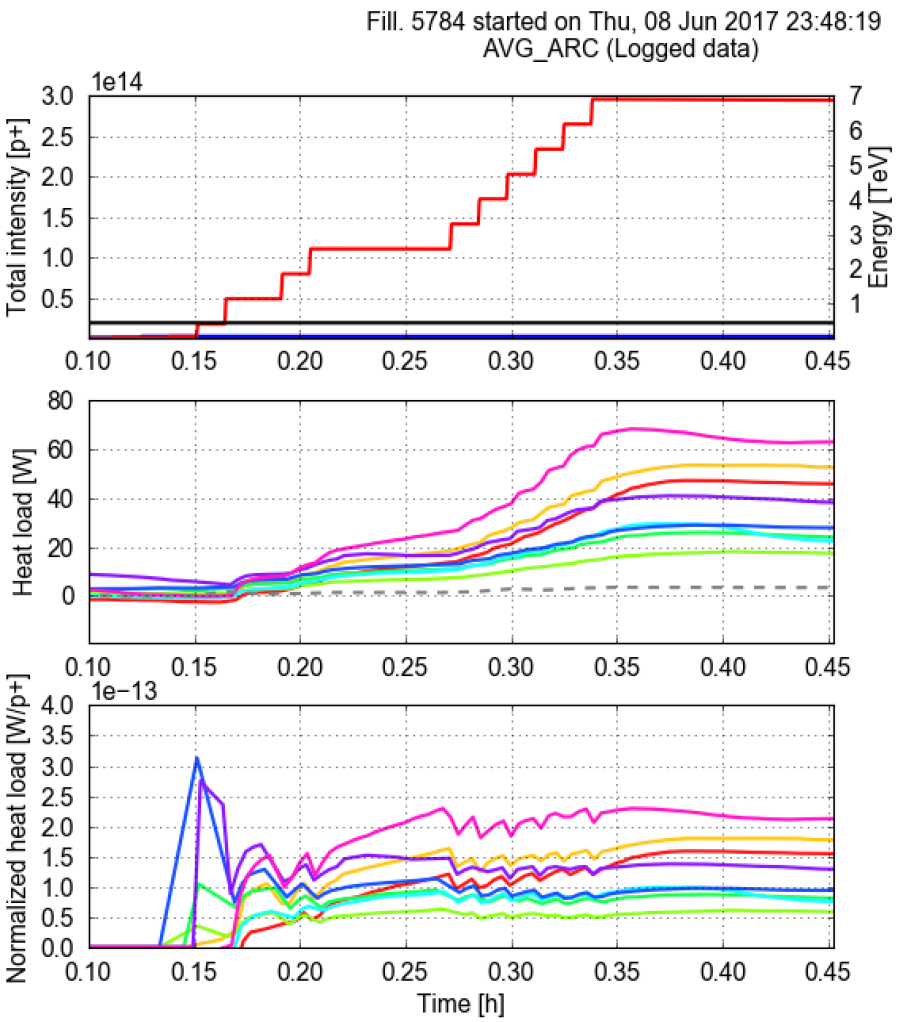


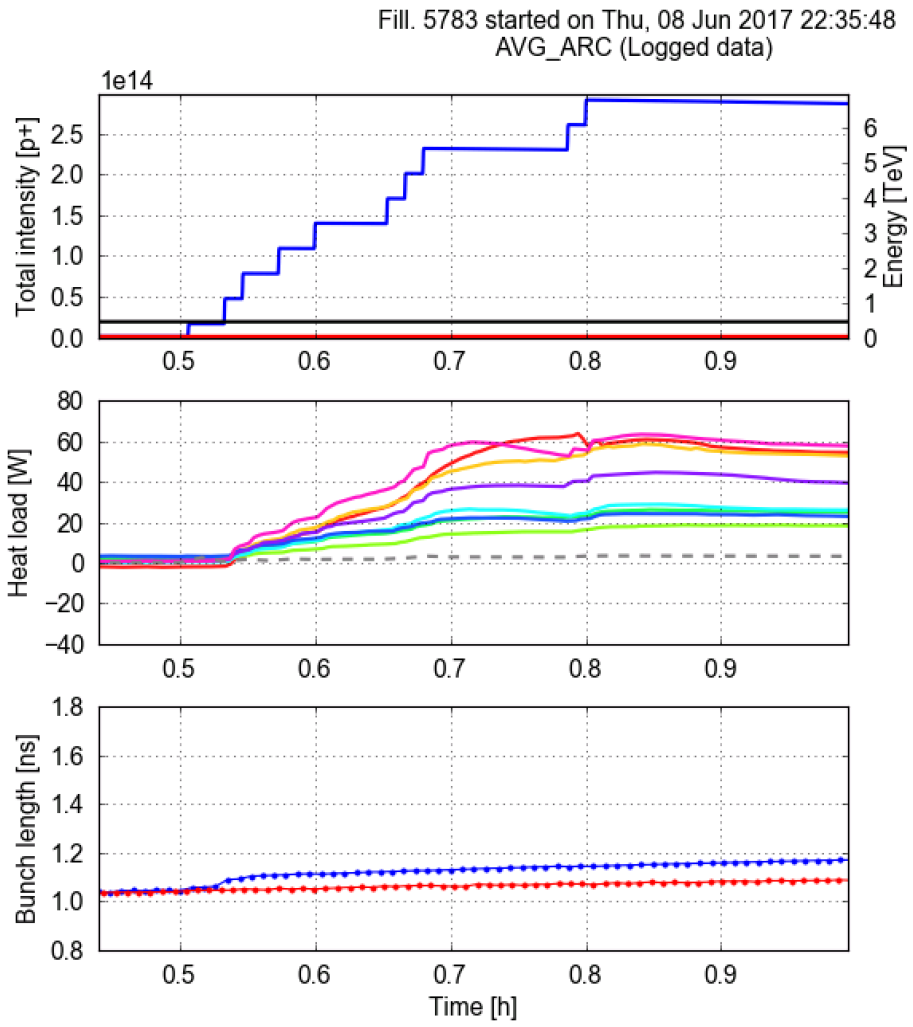
	B1 only	B2 only
Fill	5758	5756
Started on	06 Jun 2017 23:44	06 Jun 2017 21:33
T_sample [h]	0.65	1.42
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.69e13/1.21e12	1.29e12/6.08e13
Bun.len. (B1/B2) [ns]	1.12/1.04	1.17/1.11
H.L. S81 (avg) [W]	16.41	19.50
H.L. S81 (std) [W]	6.63	8.42
H.L. exp. imped. [W]	0.65	0.74
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.20	1.10

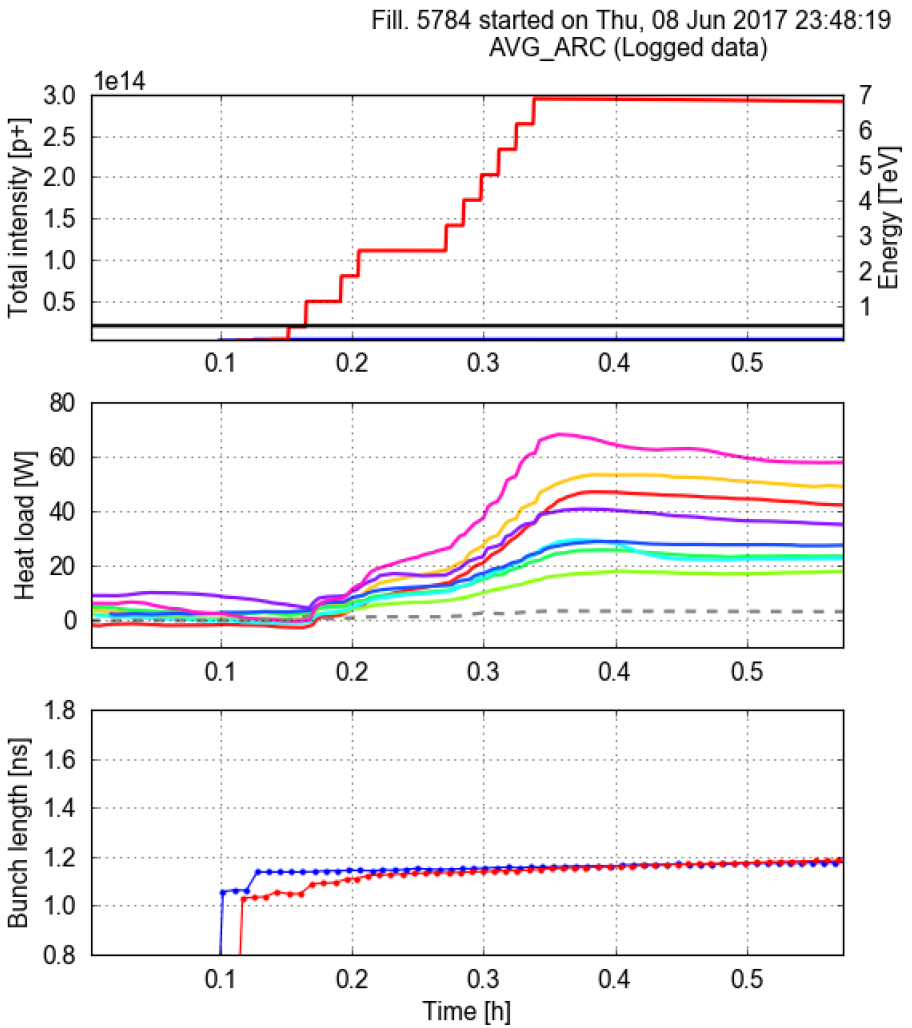
2017
450 GeV 2

Comparison made with 2800b in trains of 288b

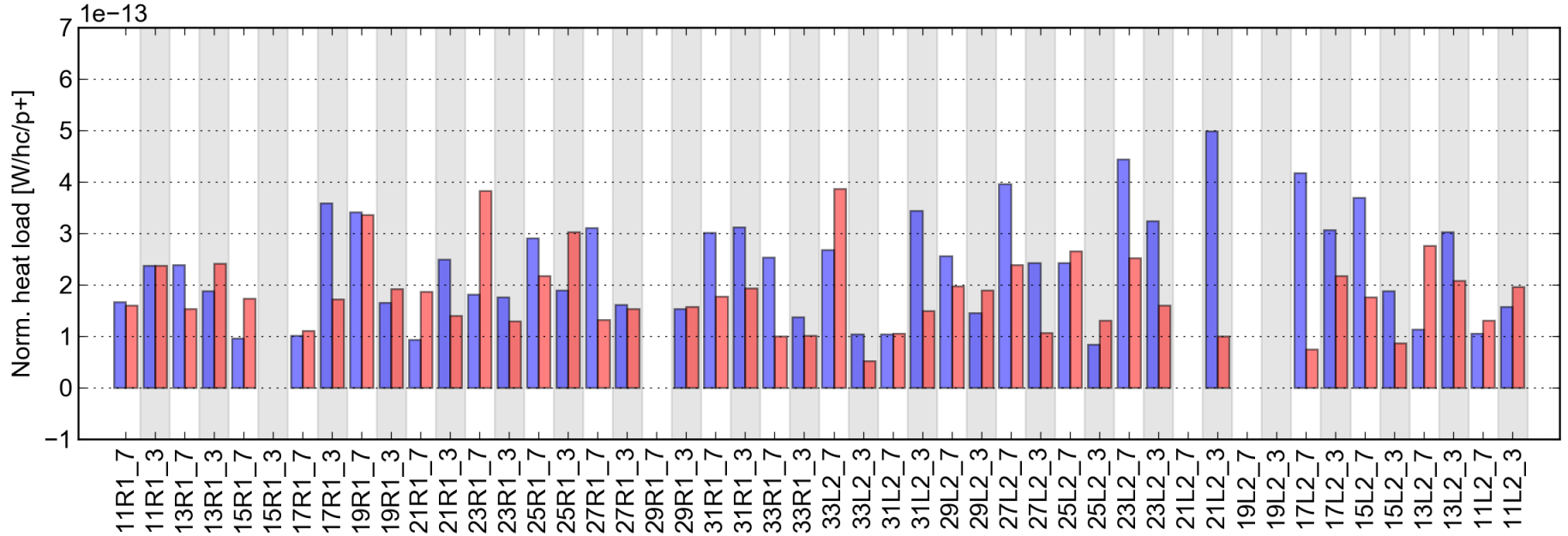

Fill. 5783 started on Thu, 08 Jun 2017 22:35:48
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

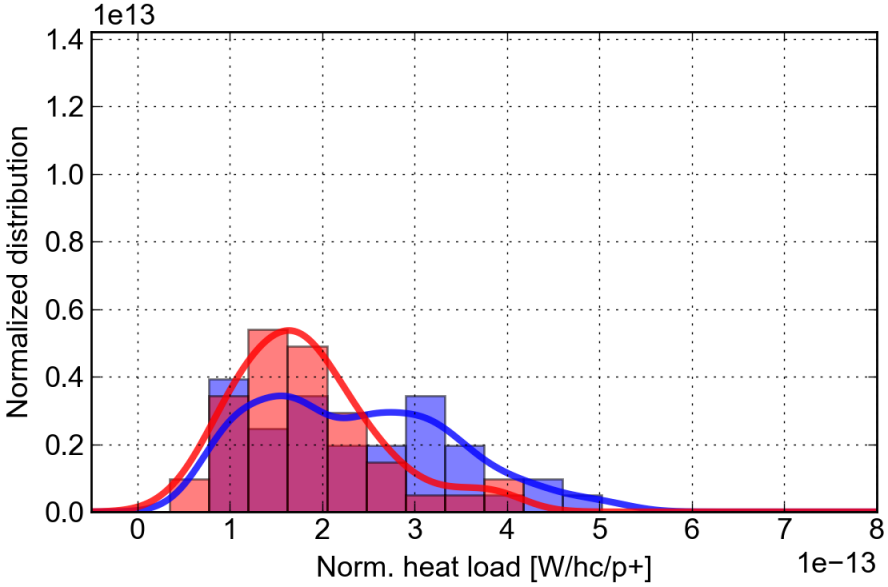

Fill. 5784 started on Thu, 08 Jun 2017 23:48:19
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5783 started on Thu, 08 Jun 2017 22:35:48
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5784 started on Thu, 08 Jun 2017 23:48:19
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

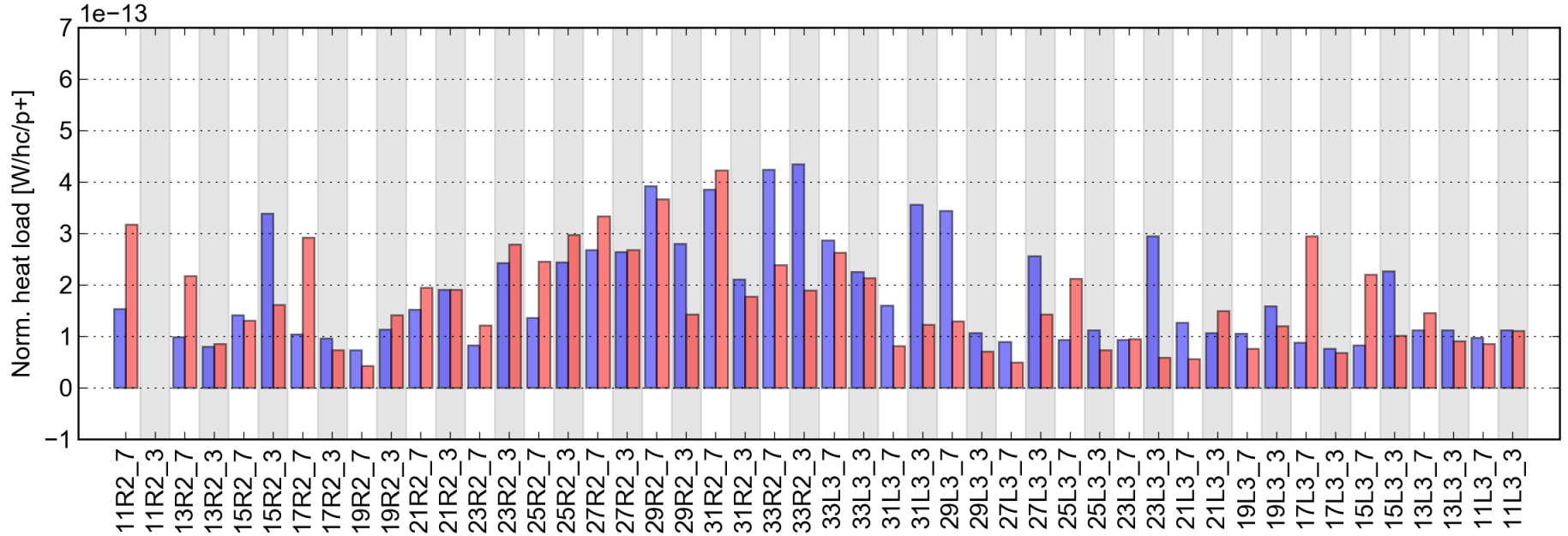
Sector 12, 48 cells, recalc. values

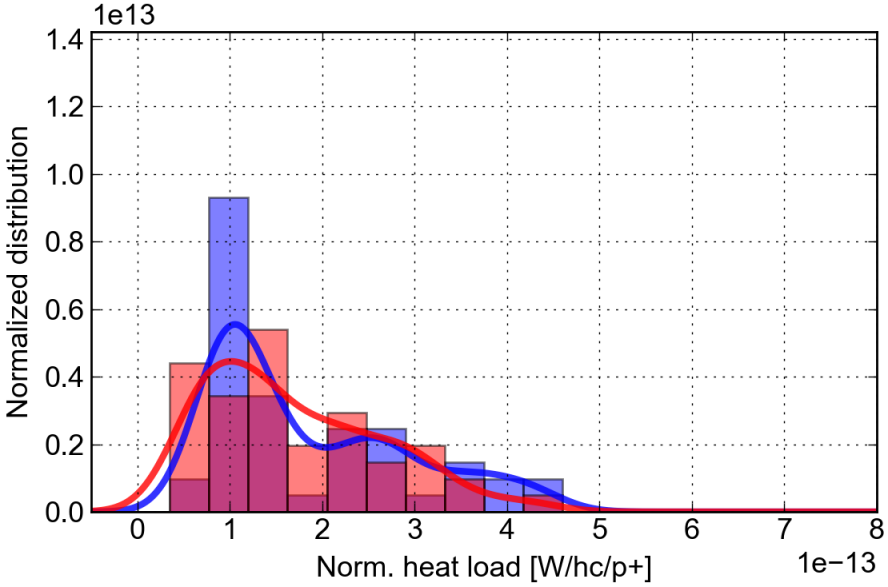




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S12 (avg) [W]	68.35	53.92
H.L. S12 (std) [W]	30.36	22.27
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

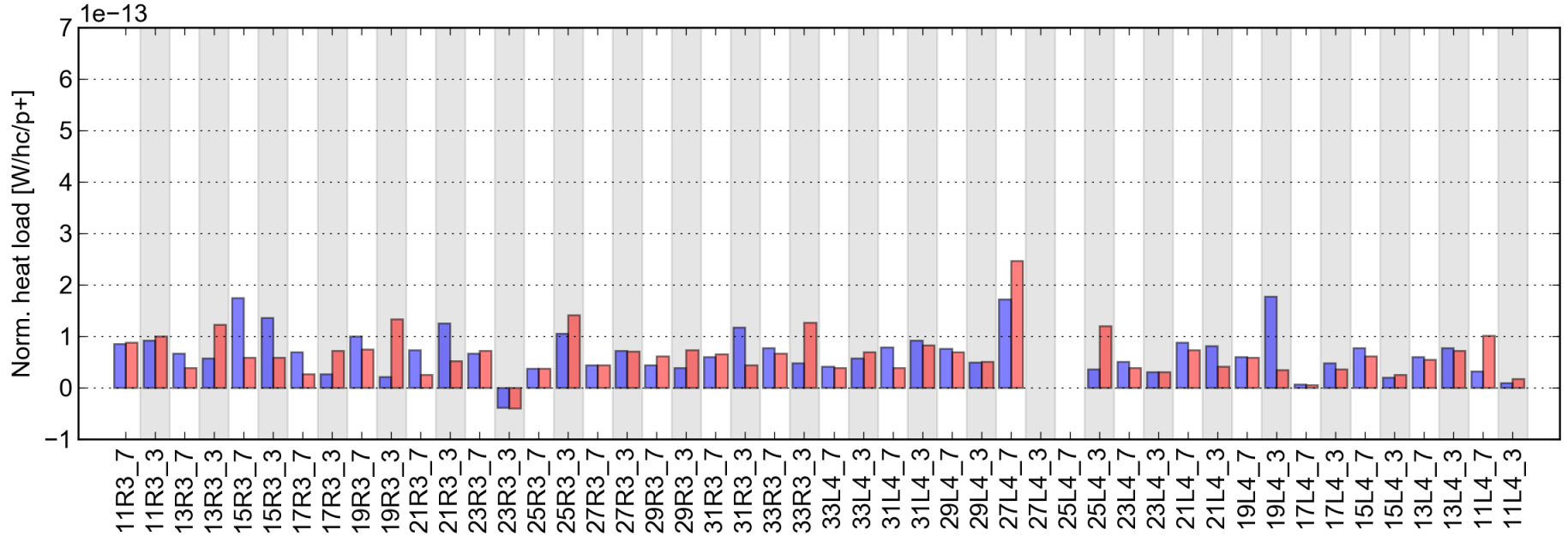
Sector 23, 48 cells, recalc. values

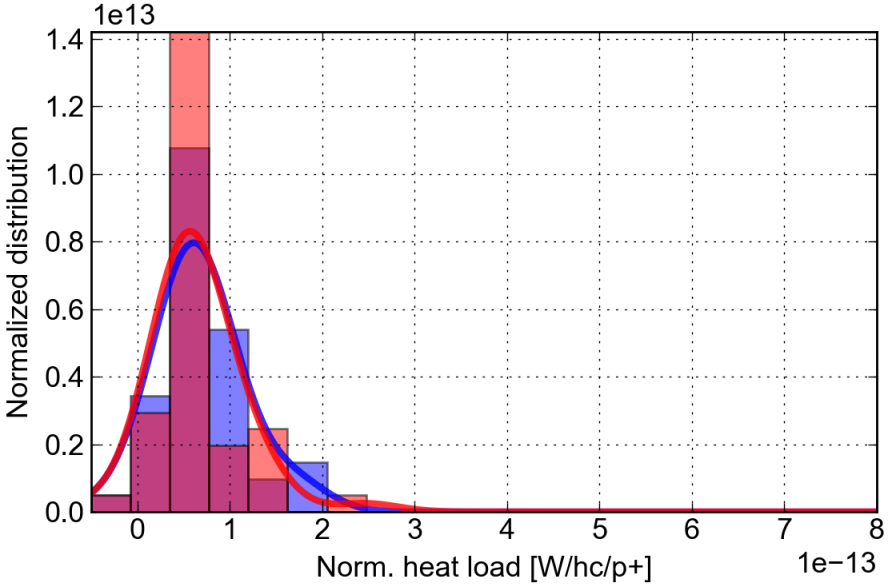




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S23 (avg) [W]	53.94	50.08
H.L. S23 (std) [W]	30.43	27.47
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

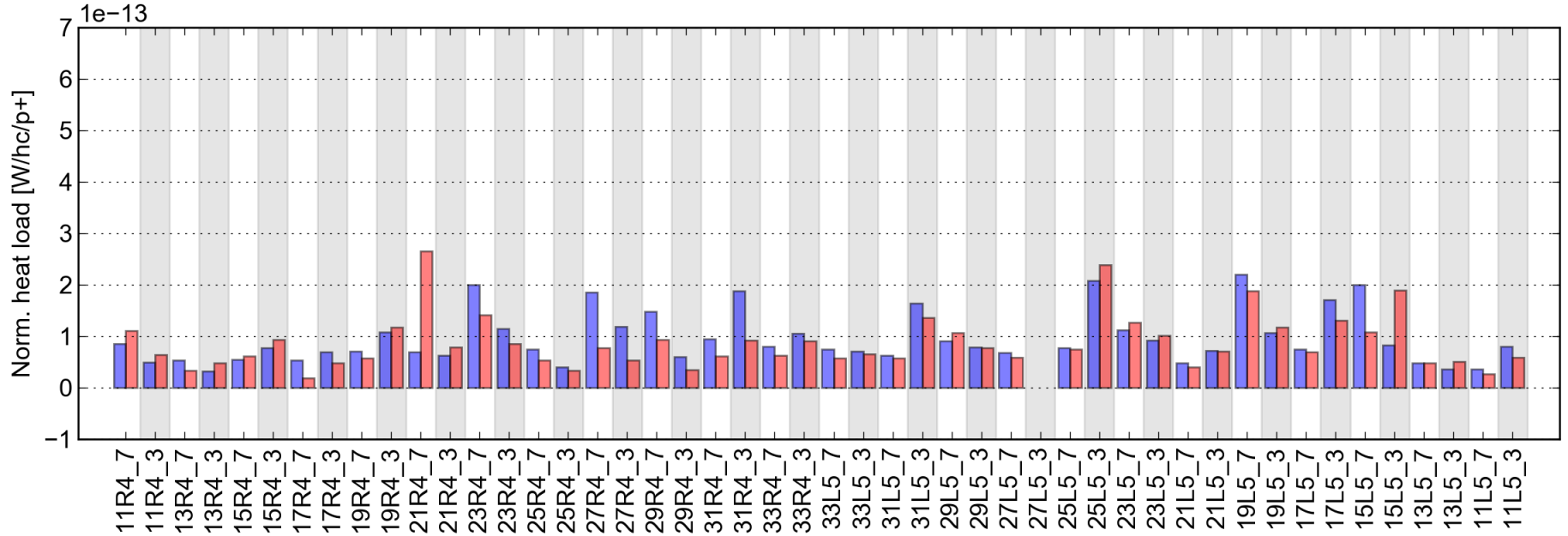
Sector 34, 48 cells, recalc. values

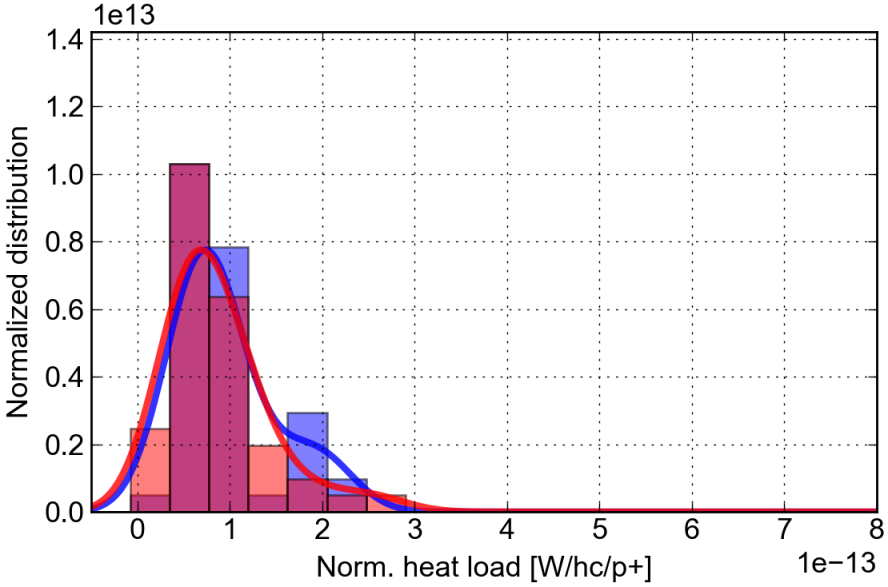




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S34 (avg) [W]	19.79	19.26
H.L. S34 (std) [W]	12.33	12.85
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

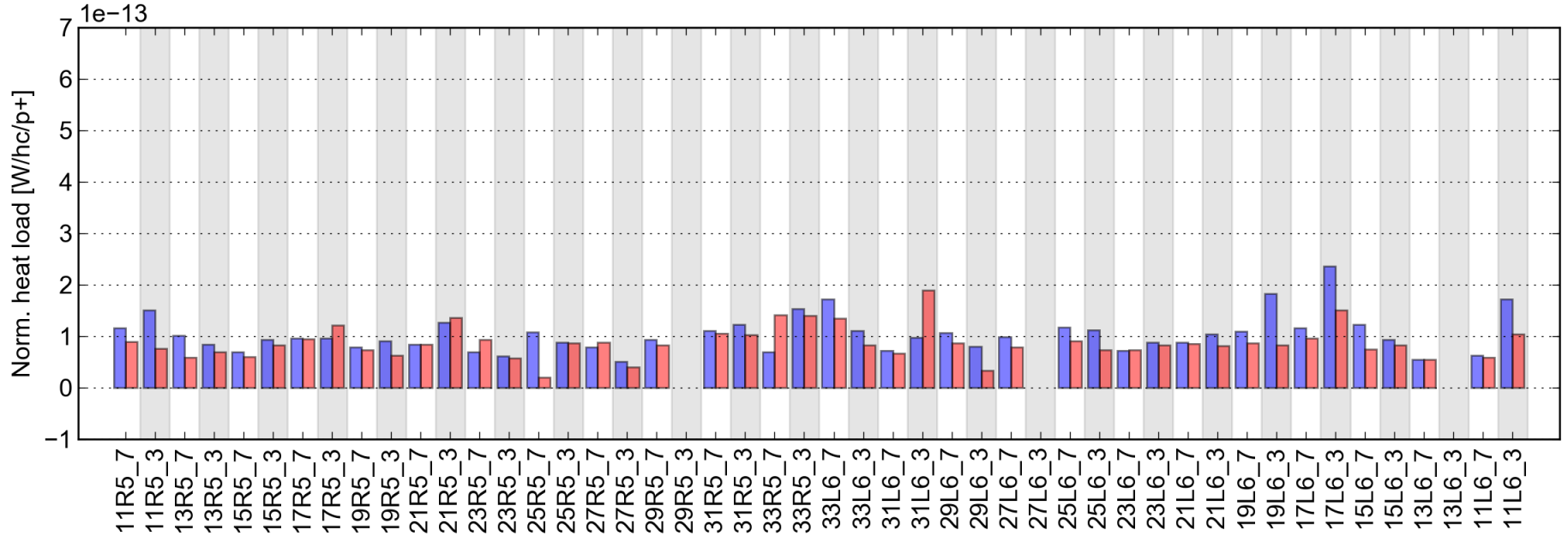
Sector 45, 48 cells, recalc. values

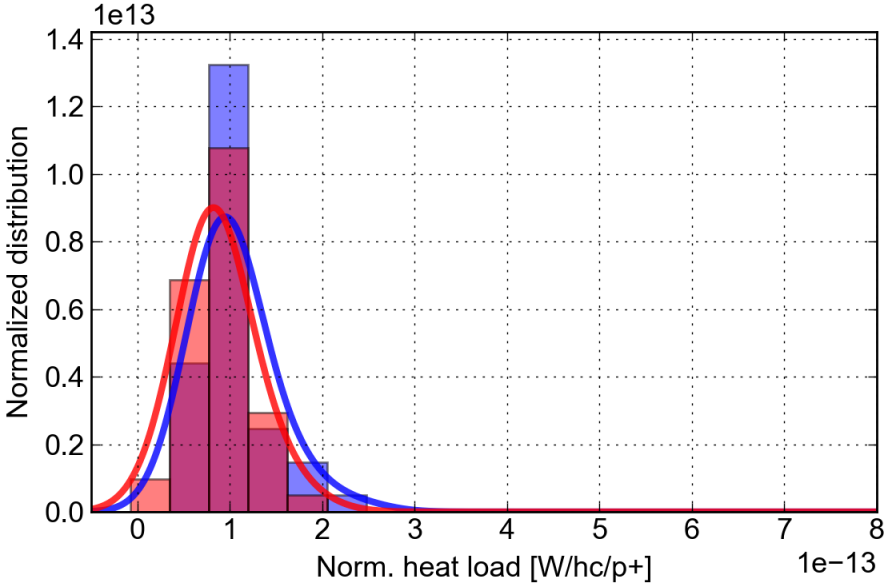




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S45 (avg) [W]	27.71	25.69
H.L. S45 (std) [W]	14.52	15.10
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

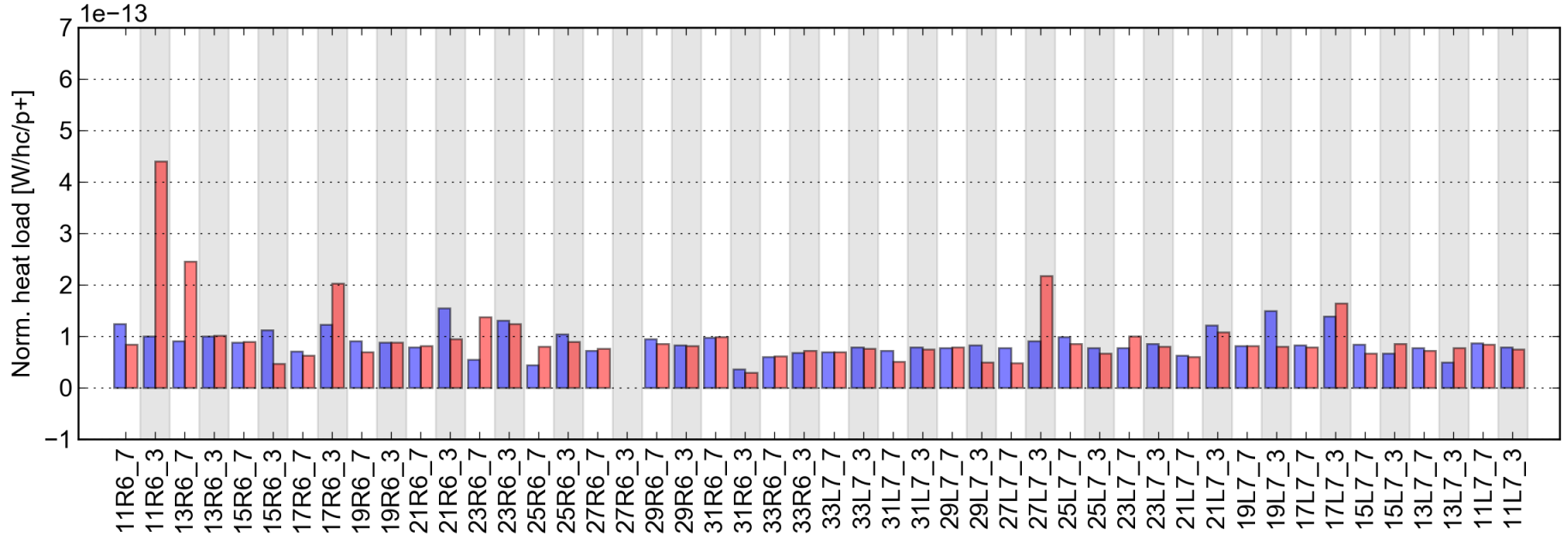
Sector 56, 48 cells, recalc. values

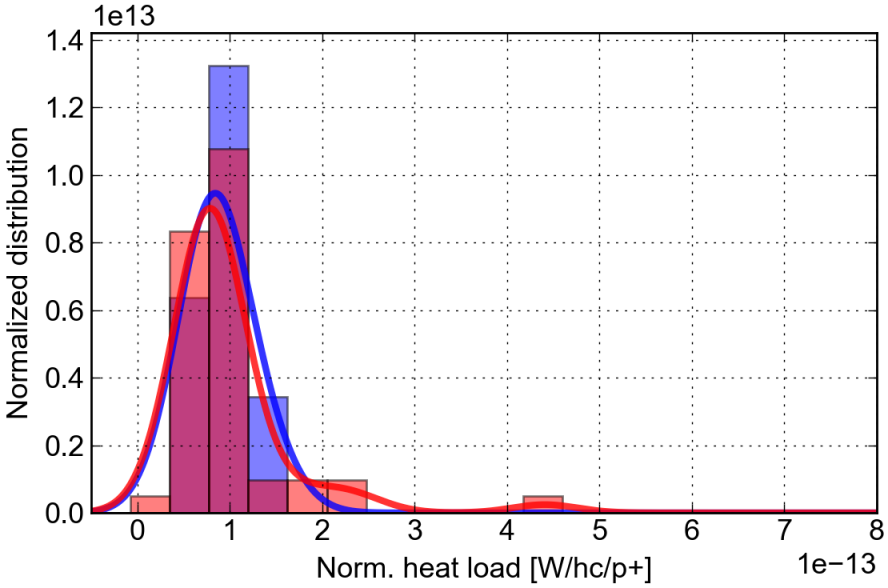




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S56 (avg) [W]	30.18	25.81
H.L. S56 (std) [W]	10.43	9.17
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

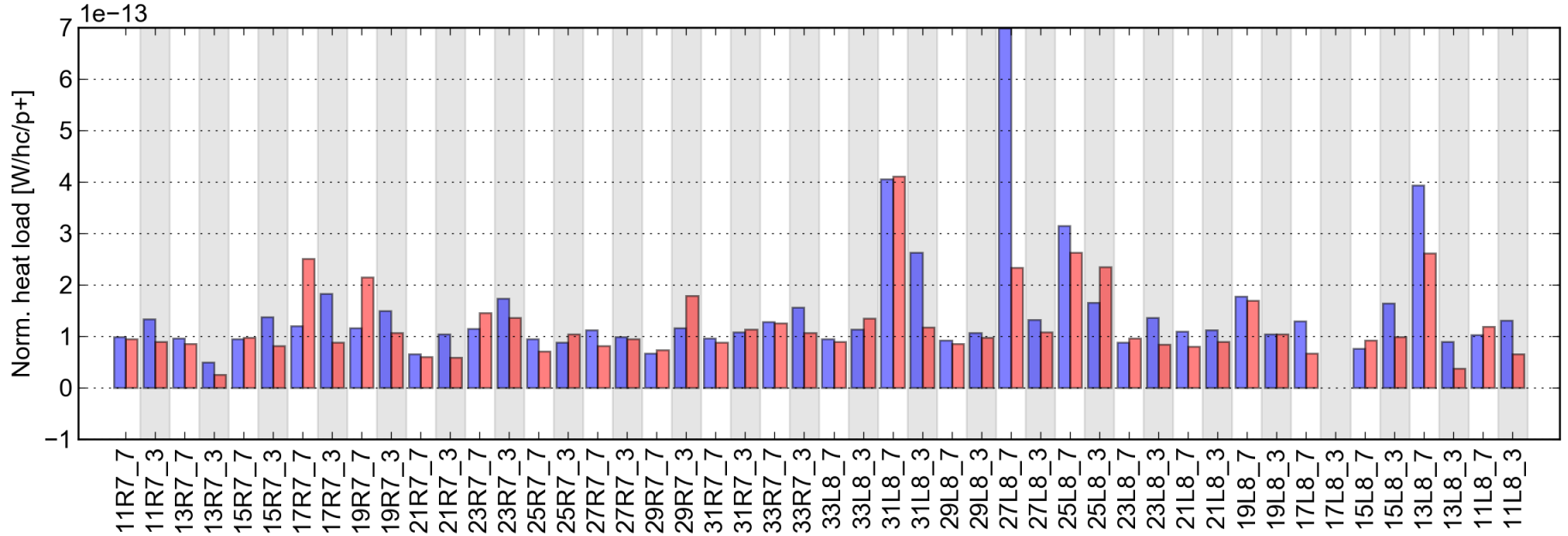
Sector 67, 48 cells, recalc. values

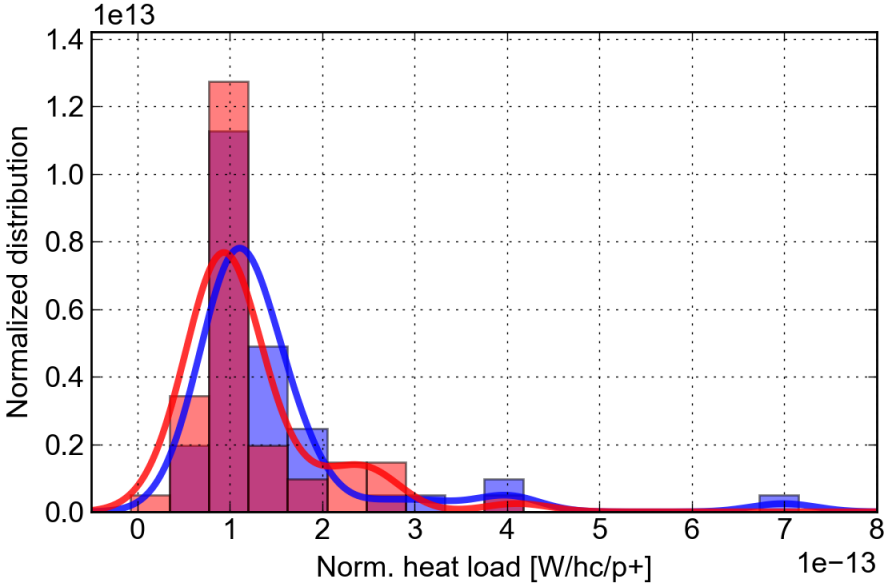




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S67 (avg) [W]	25.49	28.79
H.L. S67 (std) [W]	7.25	19.25
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

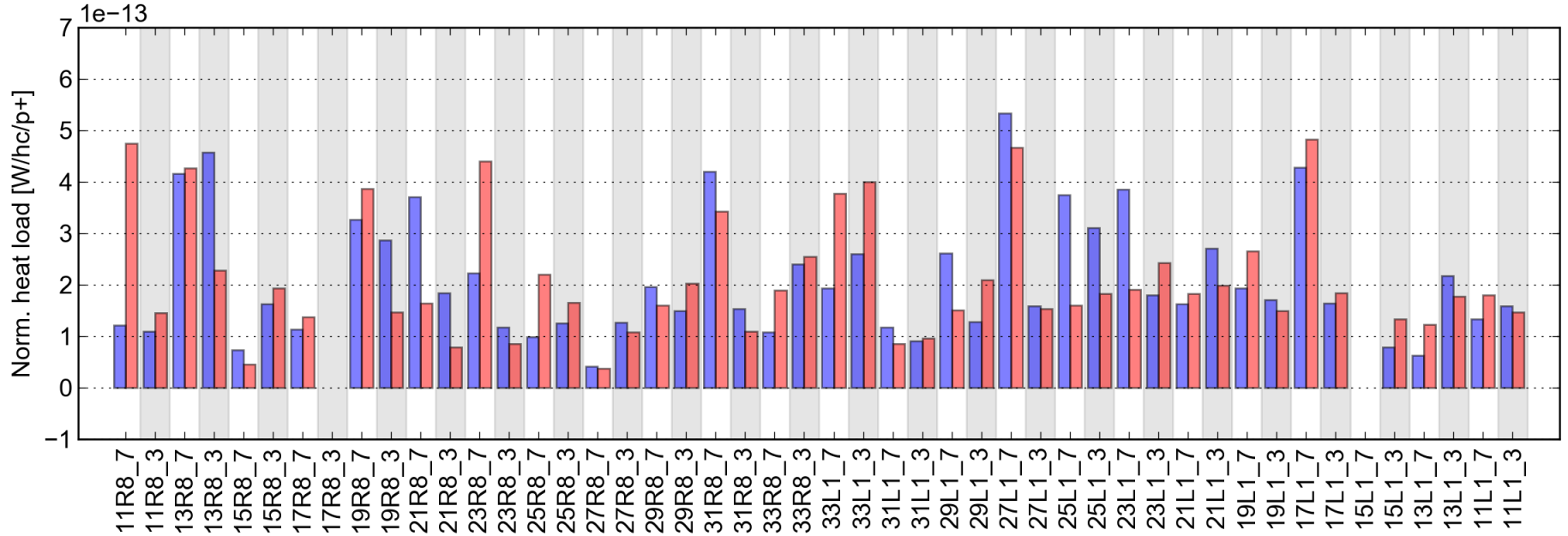
Sector 78, 48 cells, recalc. values

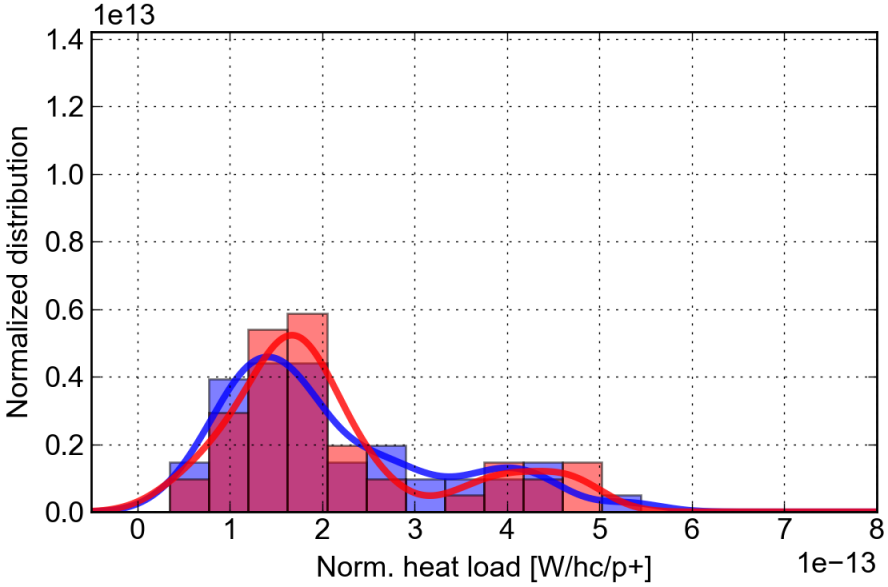




	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S78 (avg) [W]	42.67	35.93
H.L. S78 (std) [W]	31.50	20.87
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

Sector 81, 48 cells, recalc. values

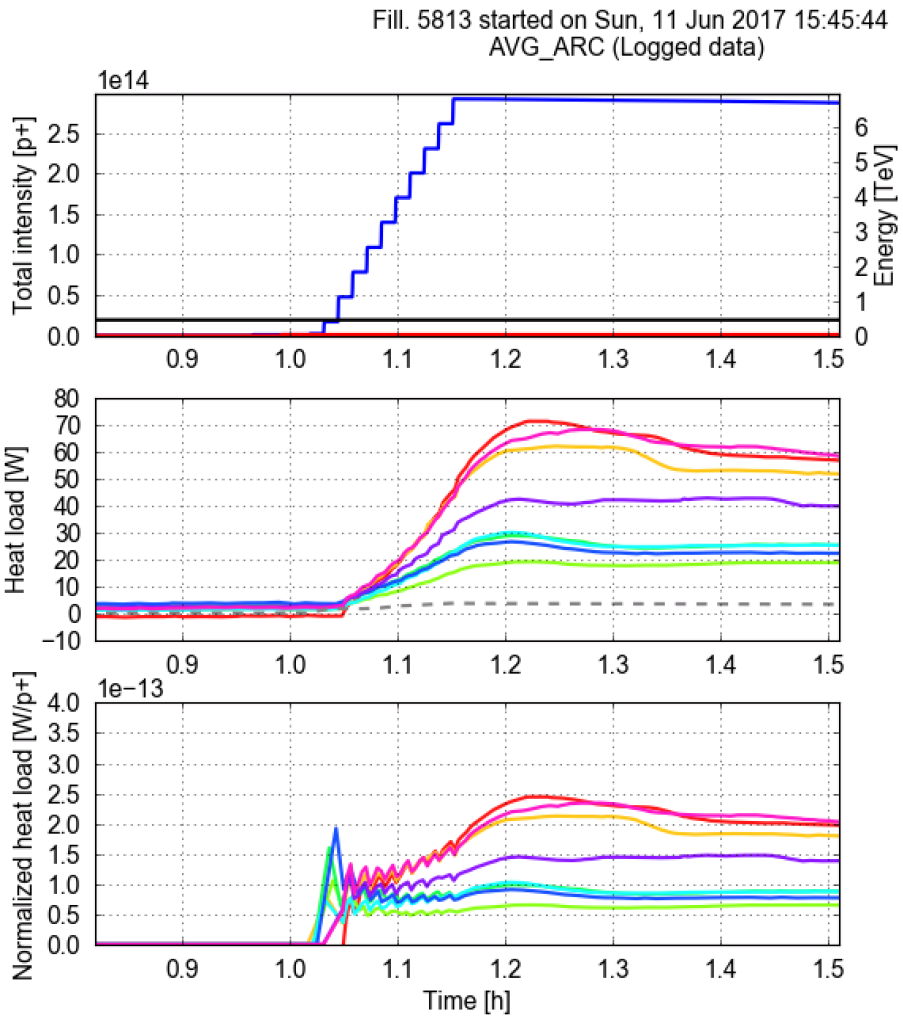


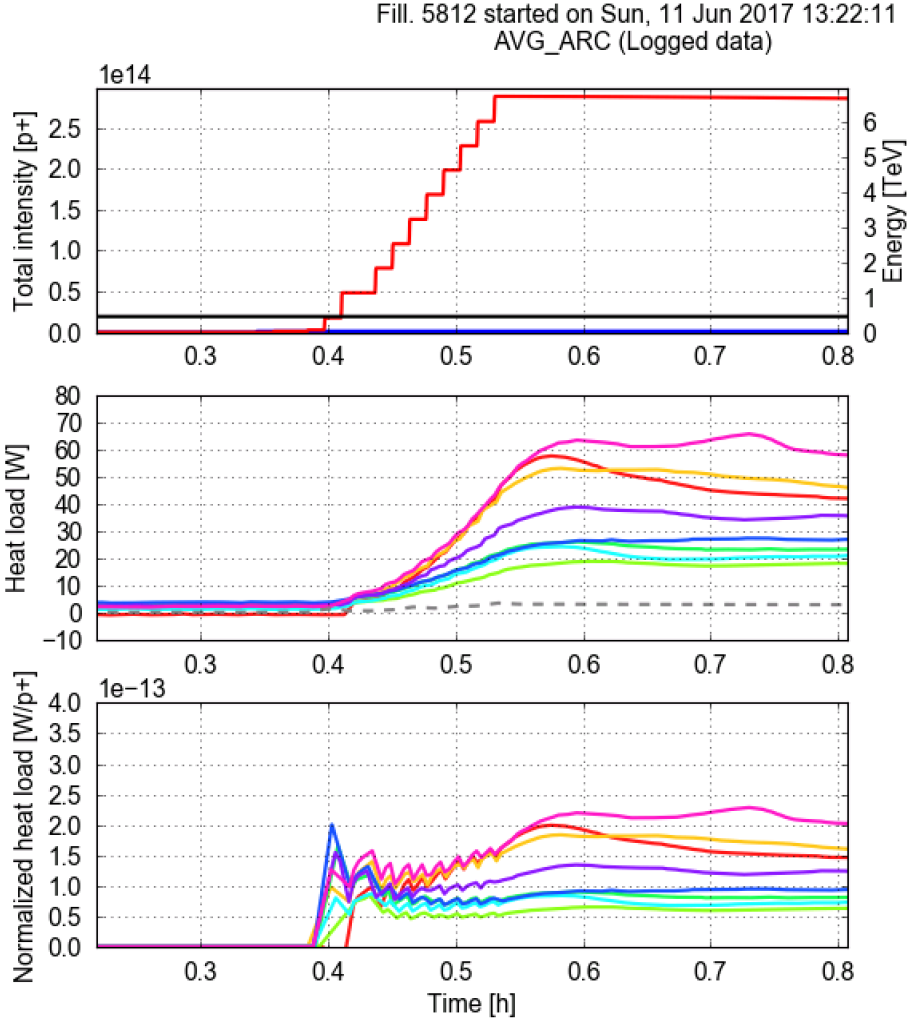


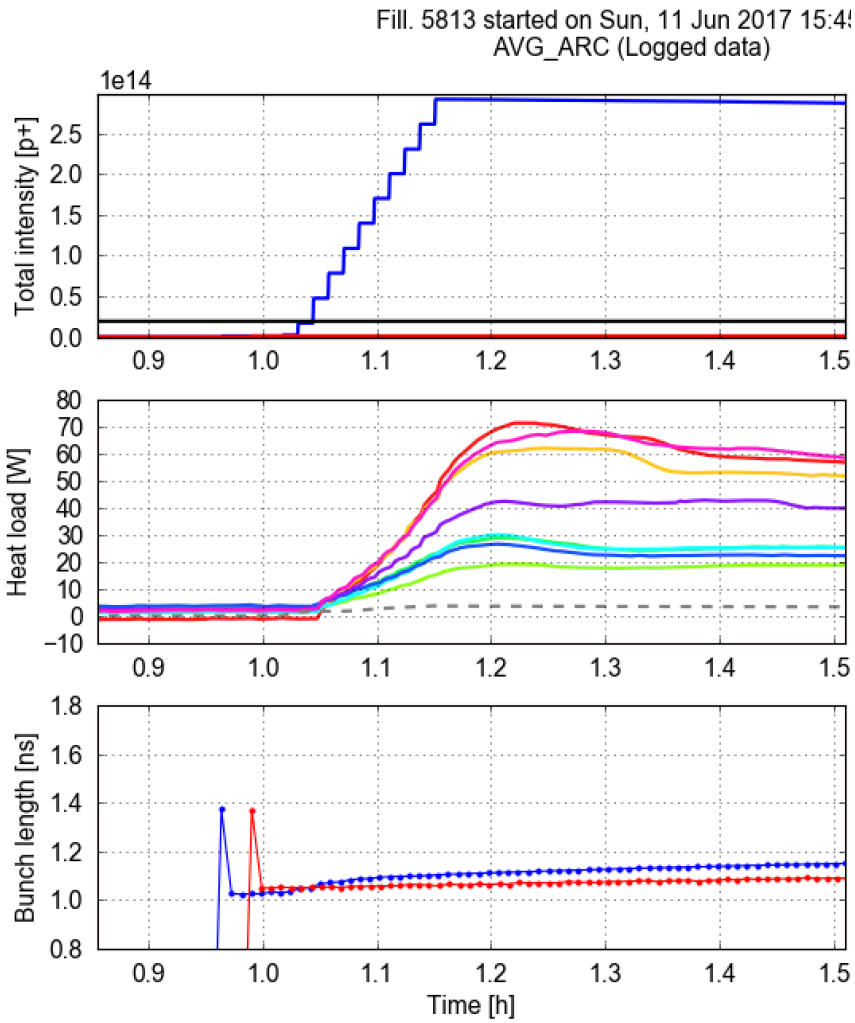
	B1 only	B2 only
Fill	5783	5784
Started on	08 Jun 2017 22:35	08 Jun 2017 23:48
T_sample [h]	0.92	0.55
Energy [GeV]	450	450
N_bunches (B1/B2)	2748/12	24/2760
Intensity (B1/B2) [p]	2.89e14/1.33e12	2.65e12/2.92e14
Bun.len. (B1/B2) [ns]	1.16/1.08	1.18/1.18
H.L. S81 (avg) [W]	60.97	62.18
H.L. S81 (std) [W]	34.18	34.34
H.L. exp. imped. [W]	3.29	3.29
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.50	0.14

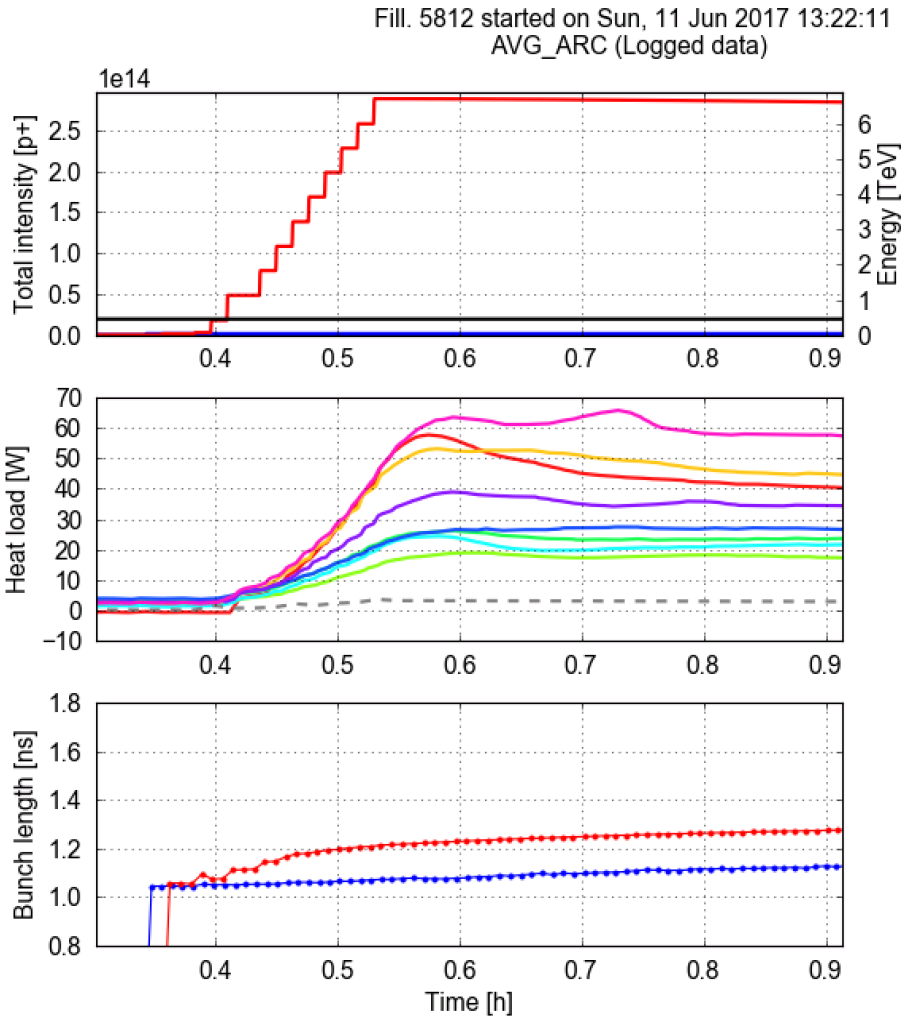
2017
450 GeV 3

Comparison made with 2800b in trains of 288b

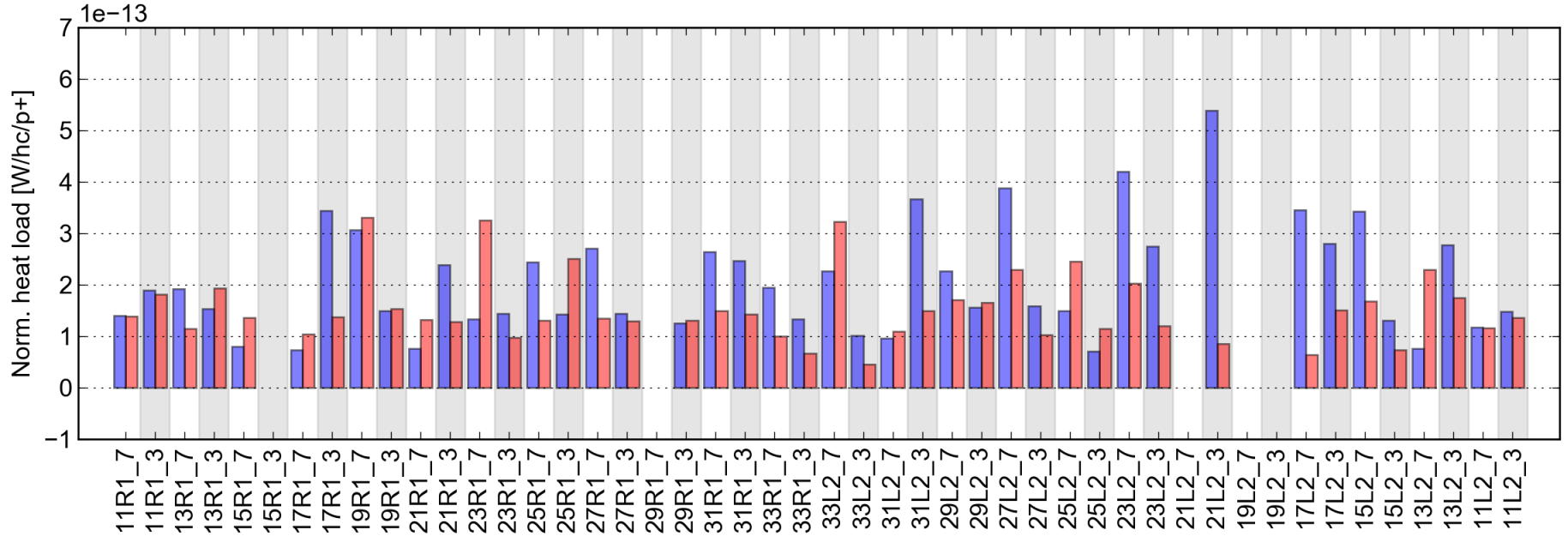

Fill. 5813 started on Sun, 11 Jun 2017 15:45:44
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

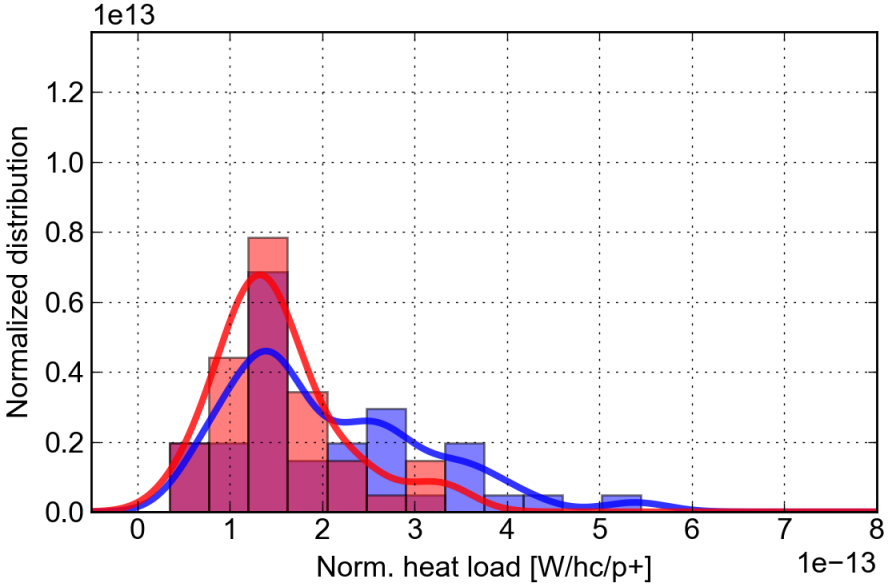

Fill. 5812 started on Sun, 11 Jun 2017 13:22:11
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5813 started on Sun, 11 Jun 2017 15:4
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5812 started on Sun, 11 Jun 2017 13:22:11
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

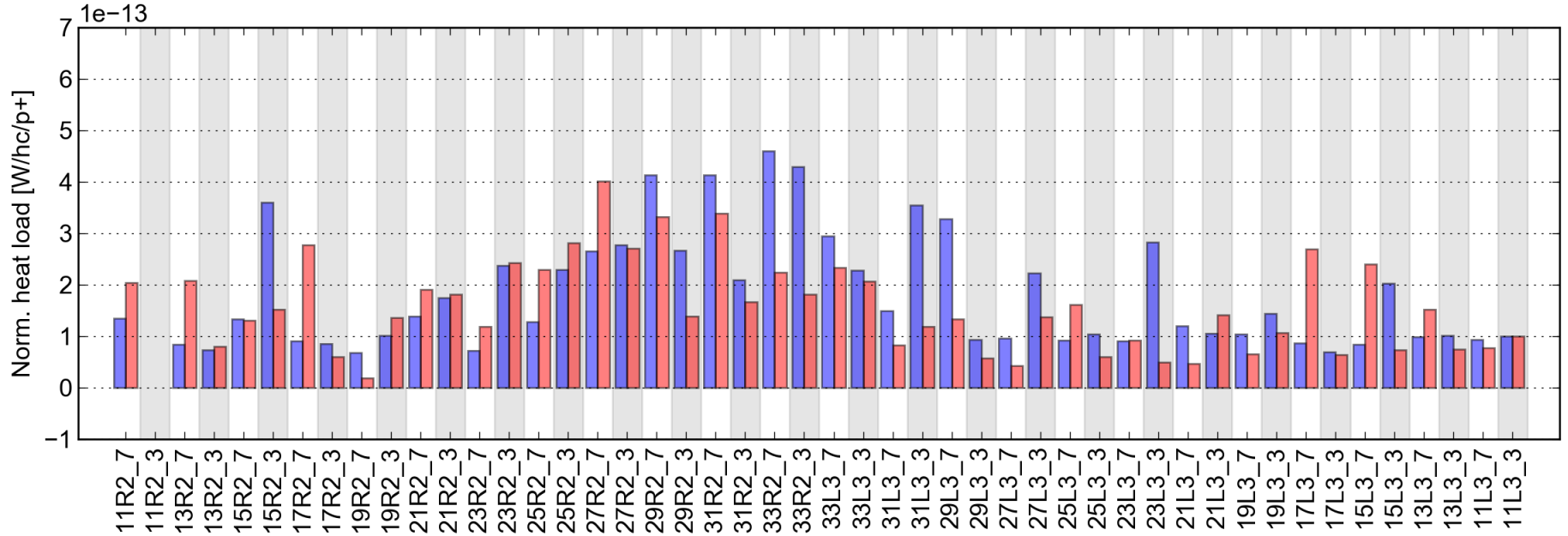
Sector 12, 48 cells, recalc. values

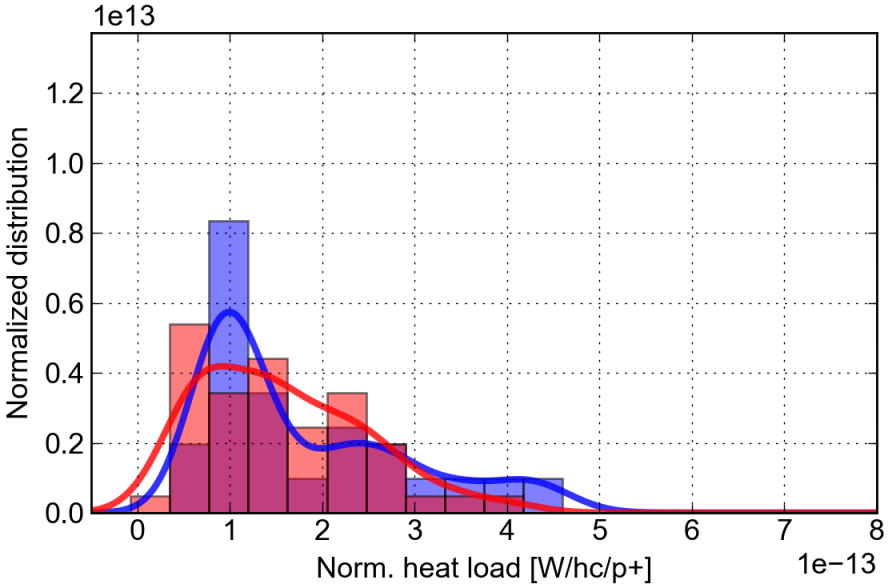




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S12 (avg) [W]	59.86	43.93
H.L. S12 (std) [W]	30.68	18.79
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

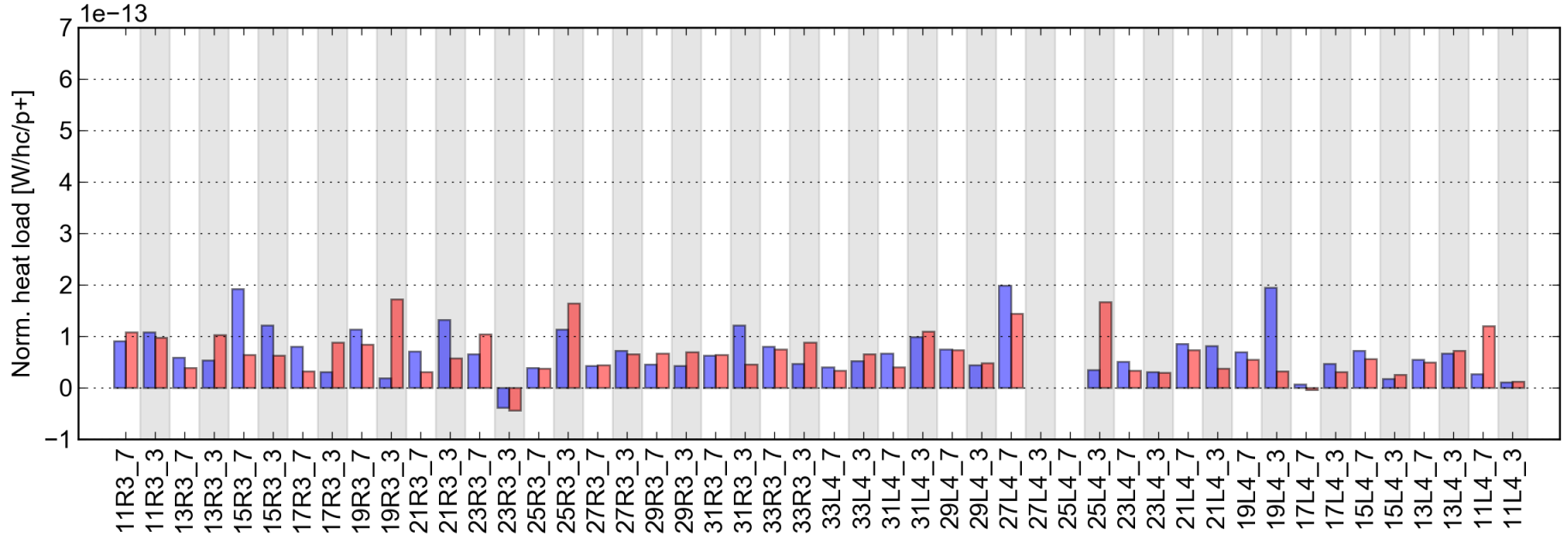
Sector 23, 48 cells, recalc. values

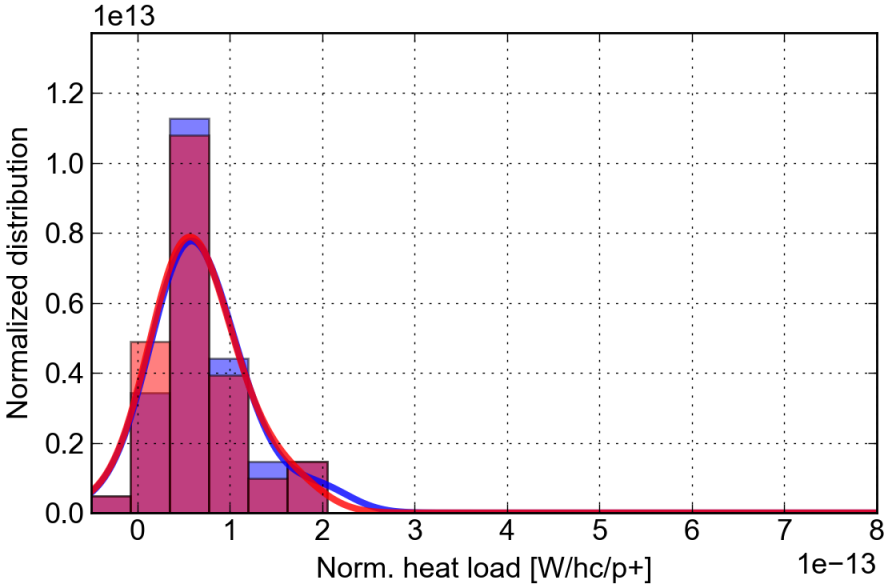




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S23 (avg) [W]	52.43	44.86
H.L. S23 (std) [W]	32.17	25.27
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

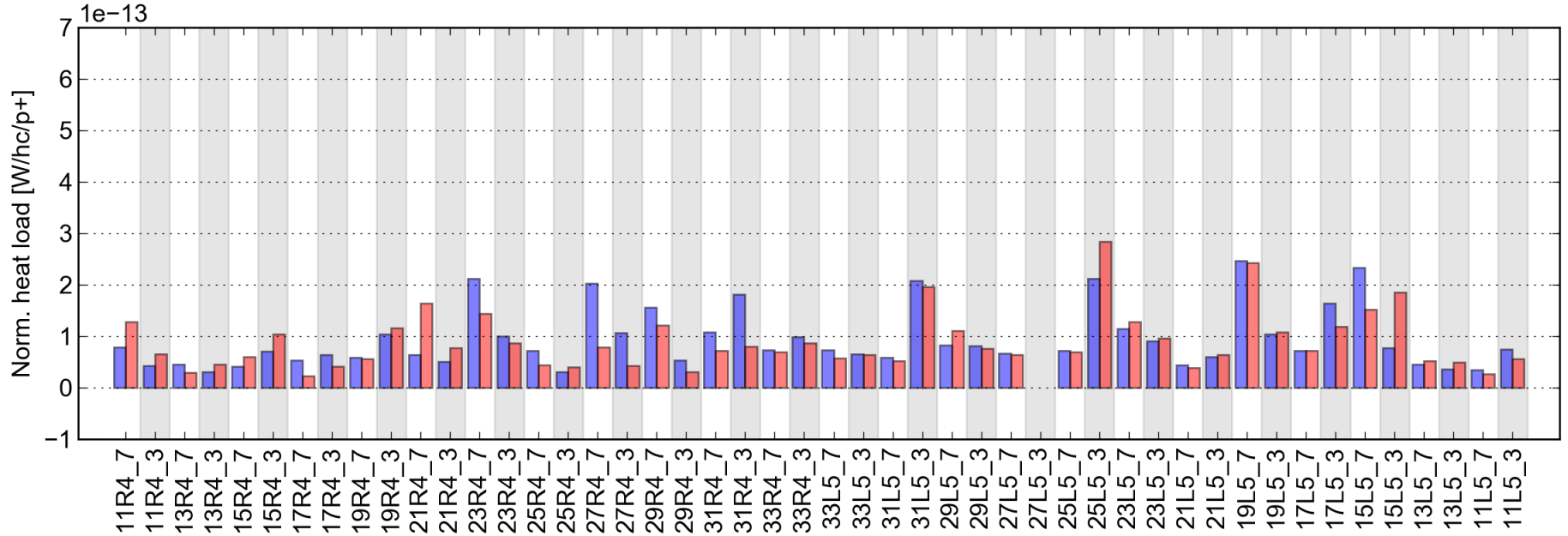
Sector 34, 48 cells, recalc. values

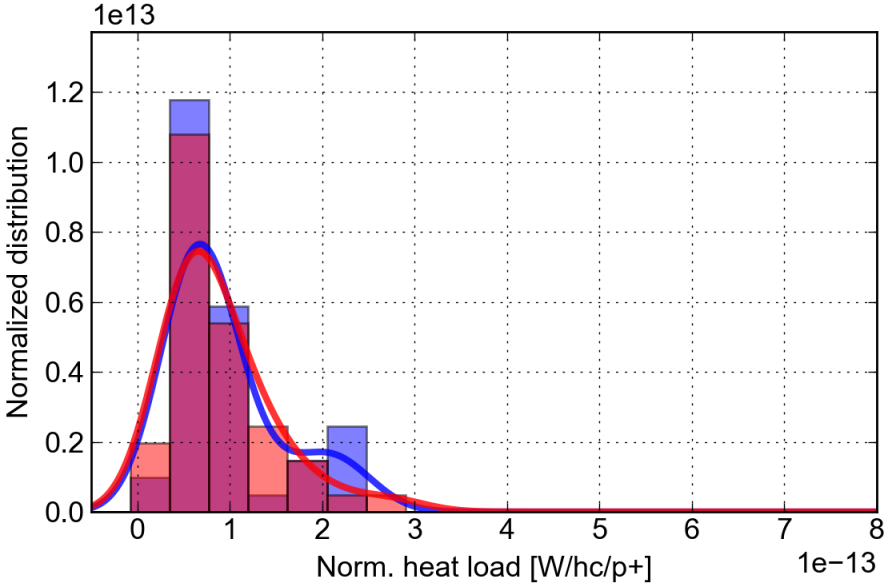




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S34 (avg) [W]	20.16	18.90
H.L. S34 (std) [W]	13.57	12.18
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

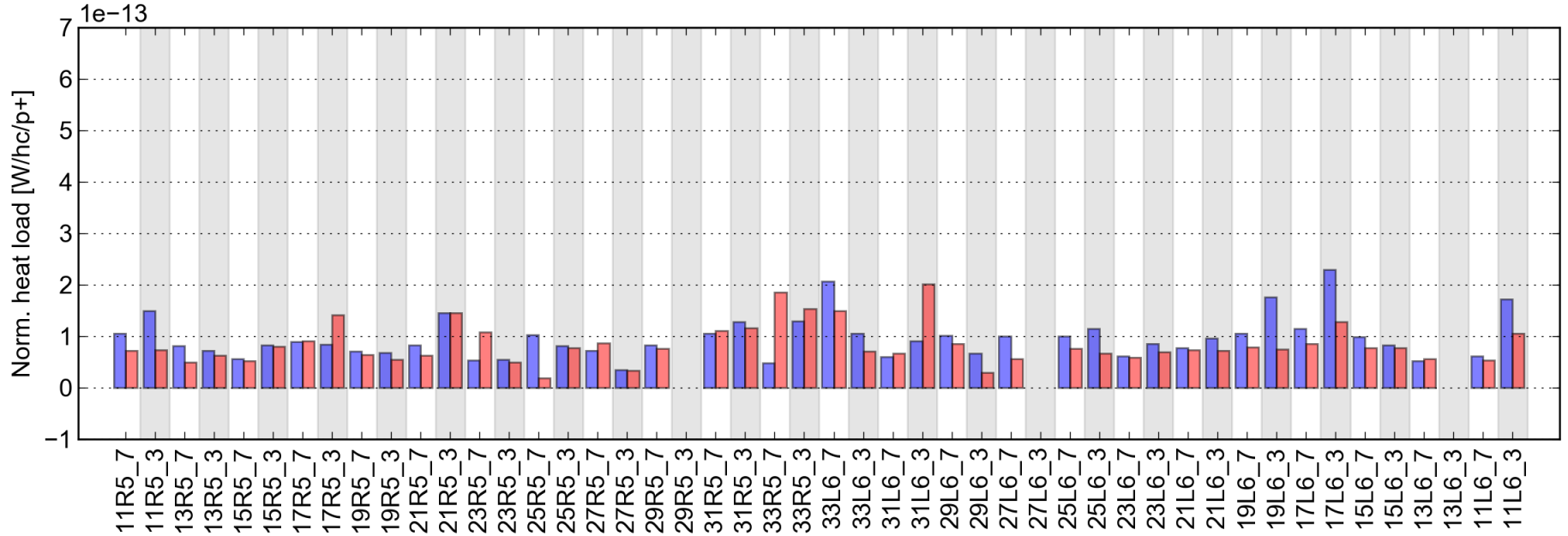
Sector 45, 48 cells, recalc. values

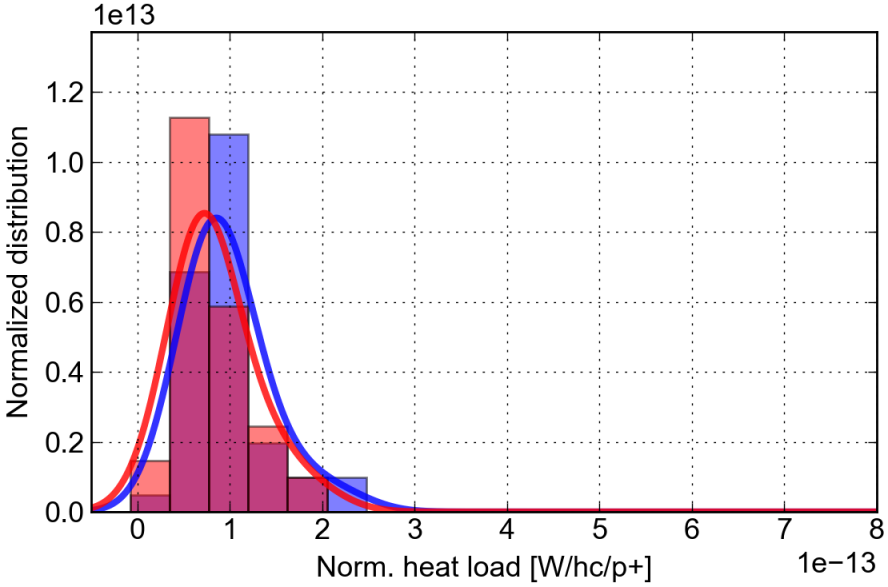




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S45 (avg) [W]	27.35	25.47
H.L. S45 (std) [W]	16.68	15.75
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

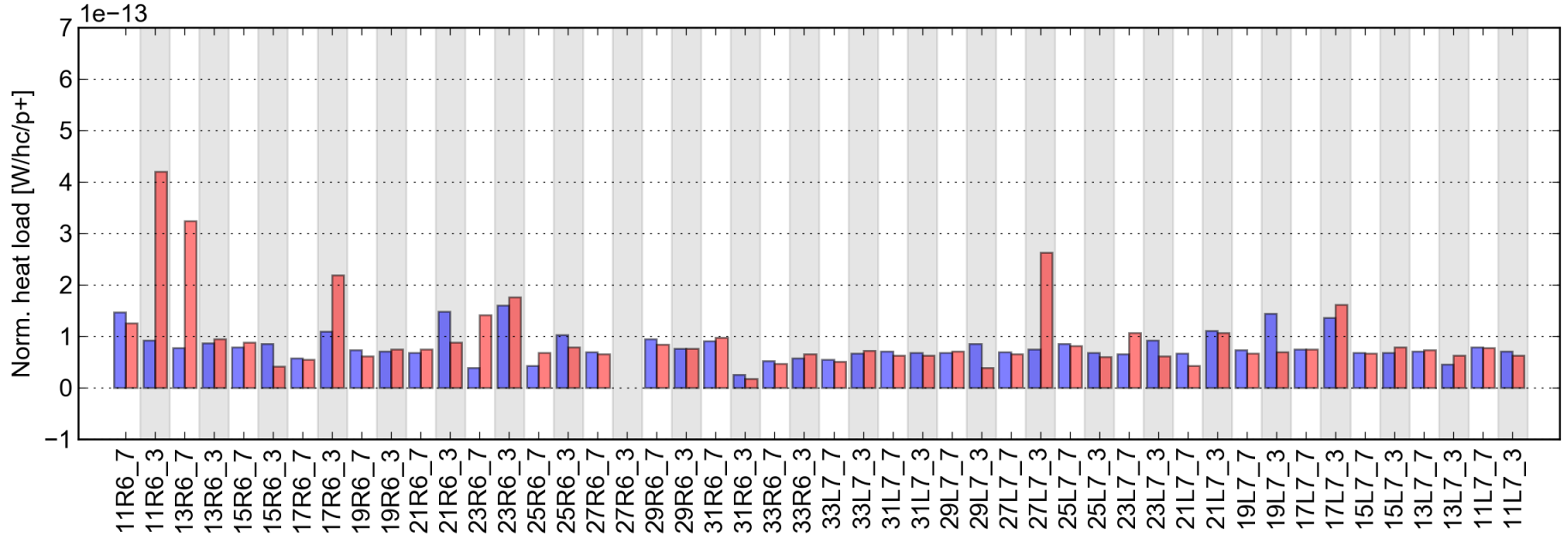
Sector 56, 48 cells, recalc. values

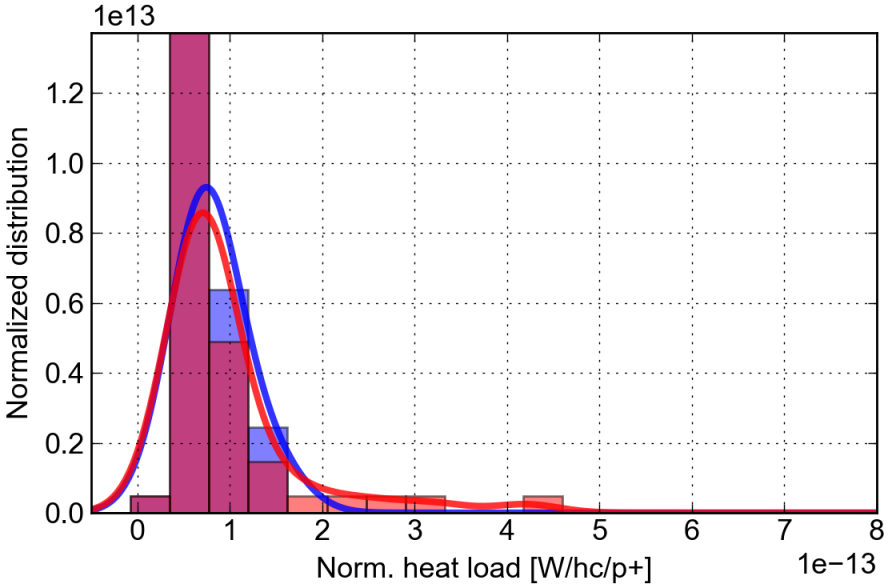




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S56 (avg) [W]	28.02	24.10
H.L. S56 (std) [W]	11.65	10.89
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

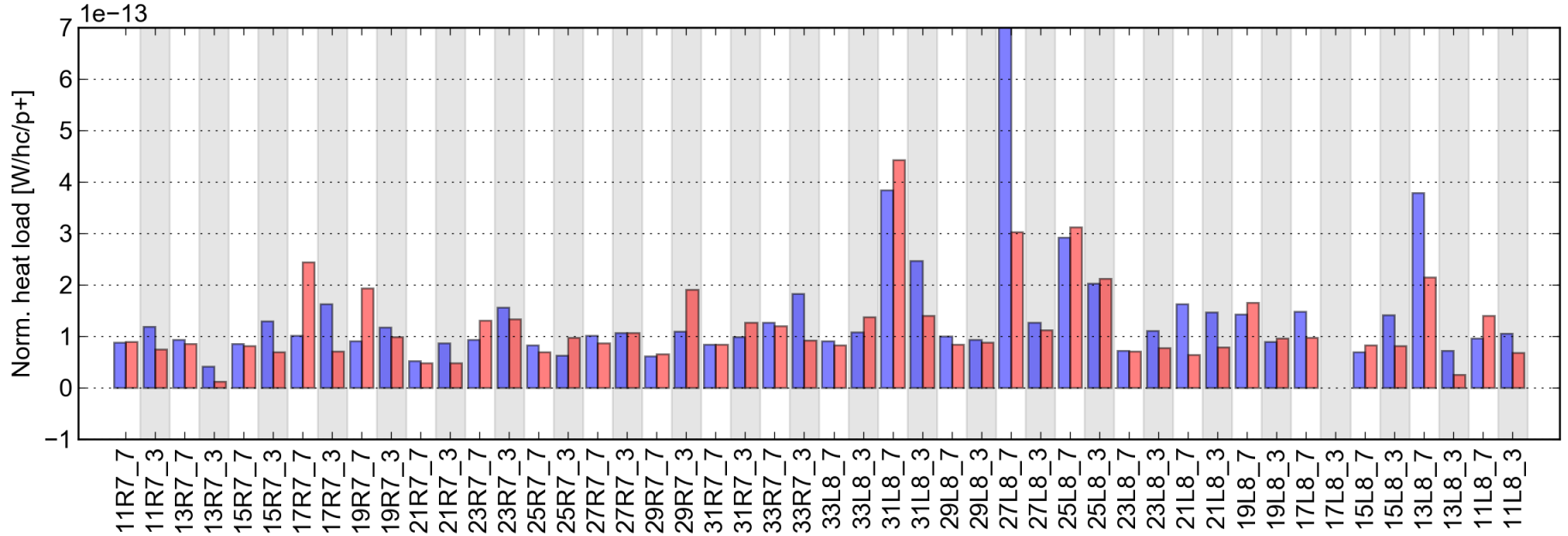
Sector 67, 48 cells, recalc. values

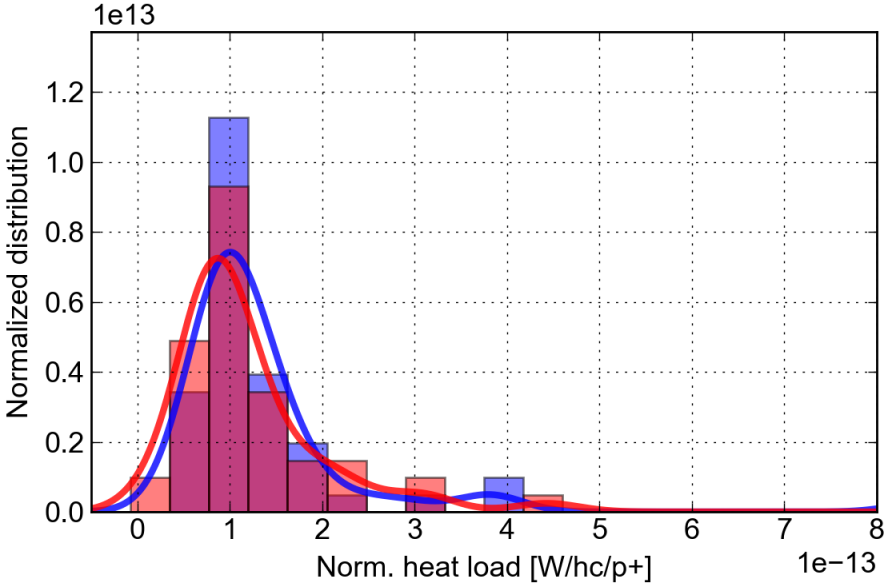




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S67 (avg) [W]	23.39	27.63
H.L. S67 (std) [W]	8.20	21.05
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

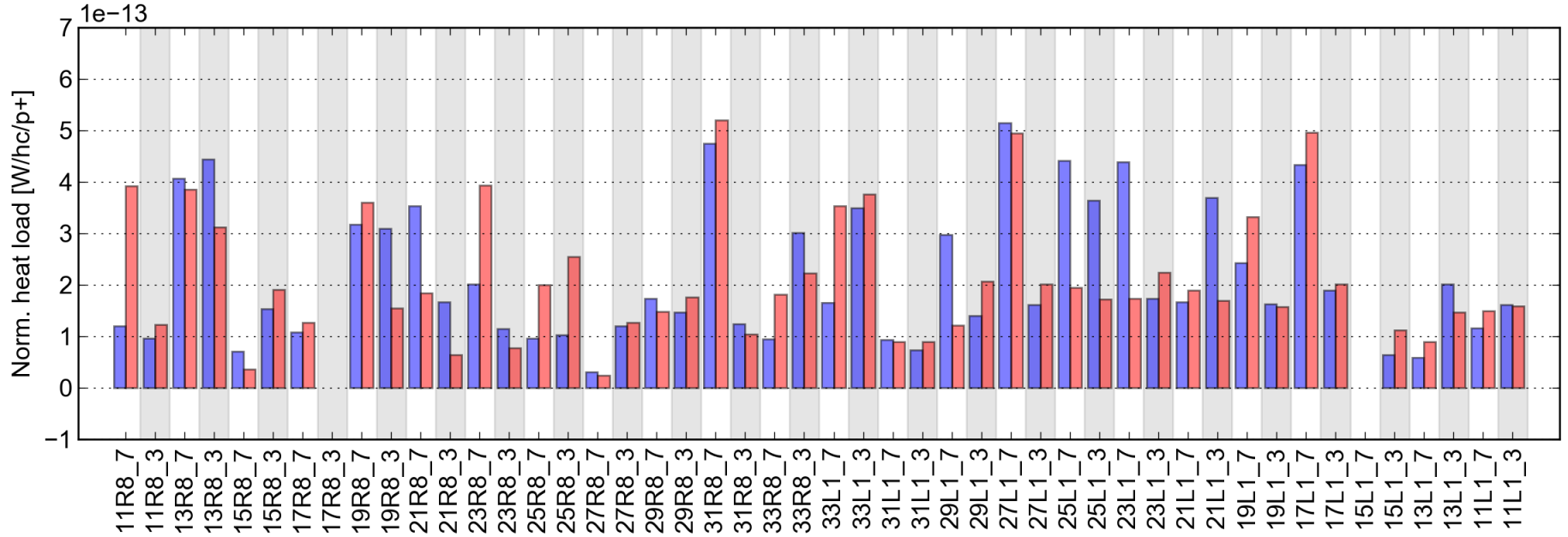
Sector 78, 48 cells, recalc. values

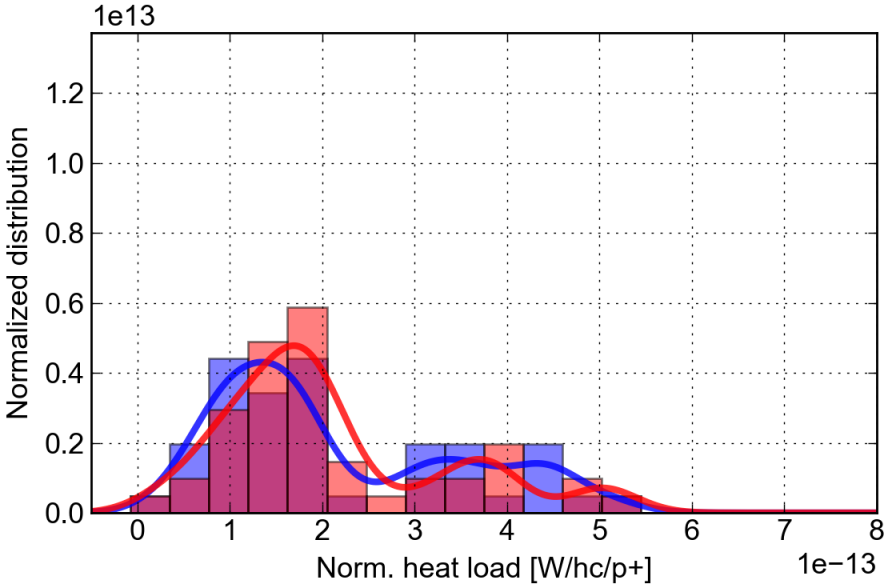




	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S78 (avg) [W]	41.14	34.16
H.L. S78 (std) [W]	36.54	22.53
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

Sector 81, 48 cells, recalc. values

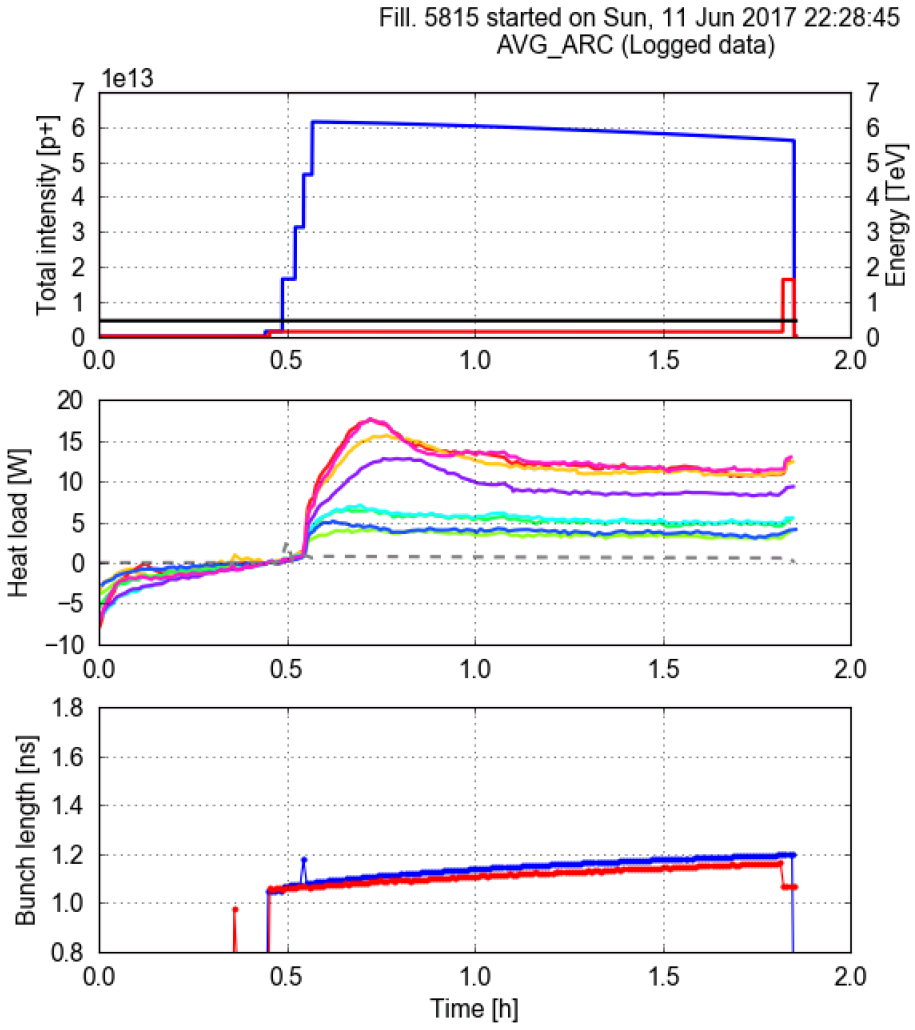


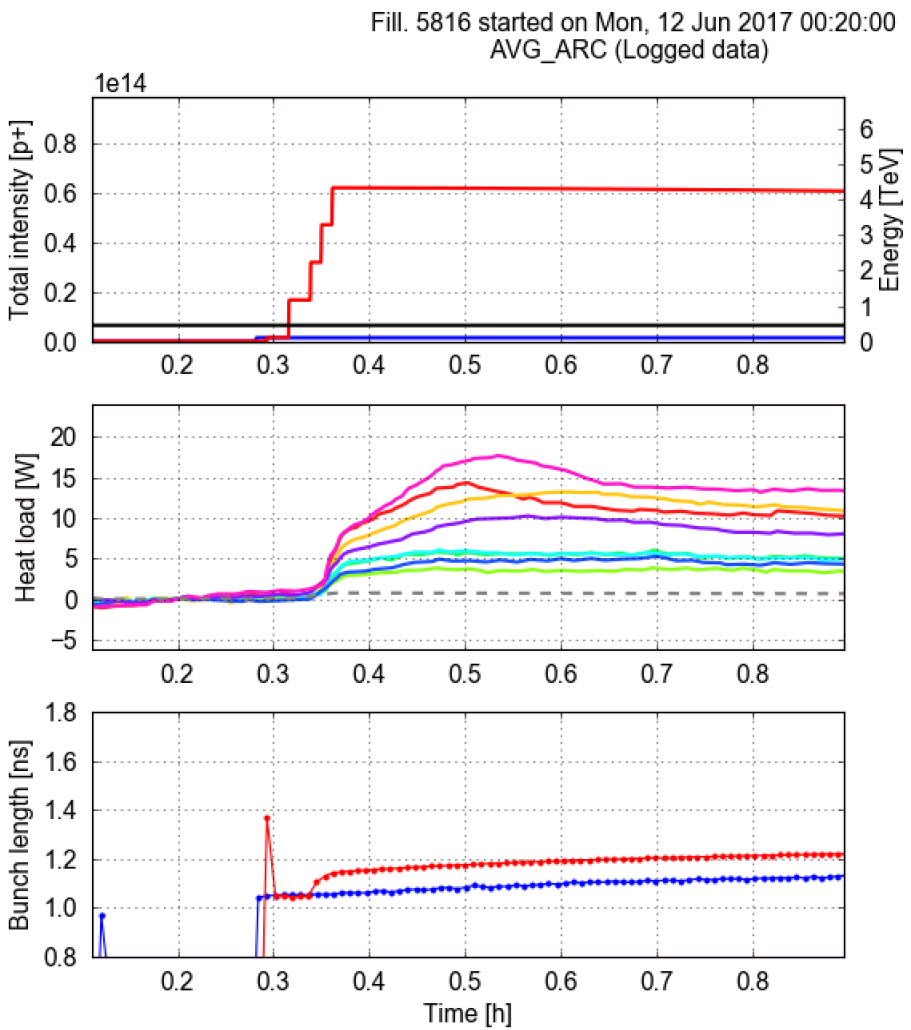


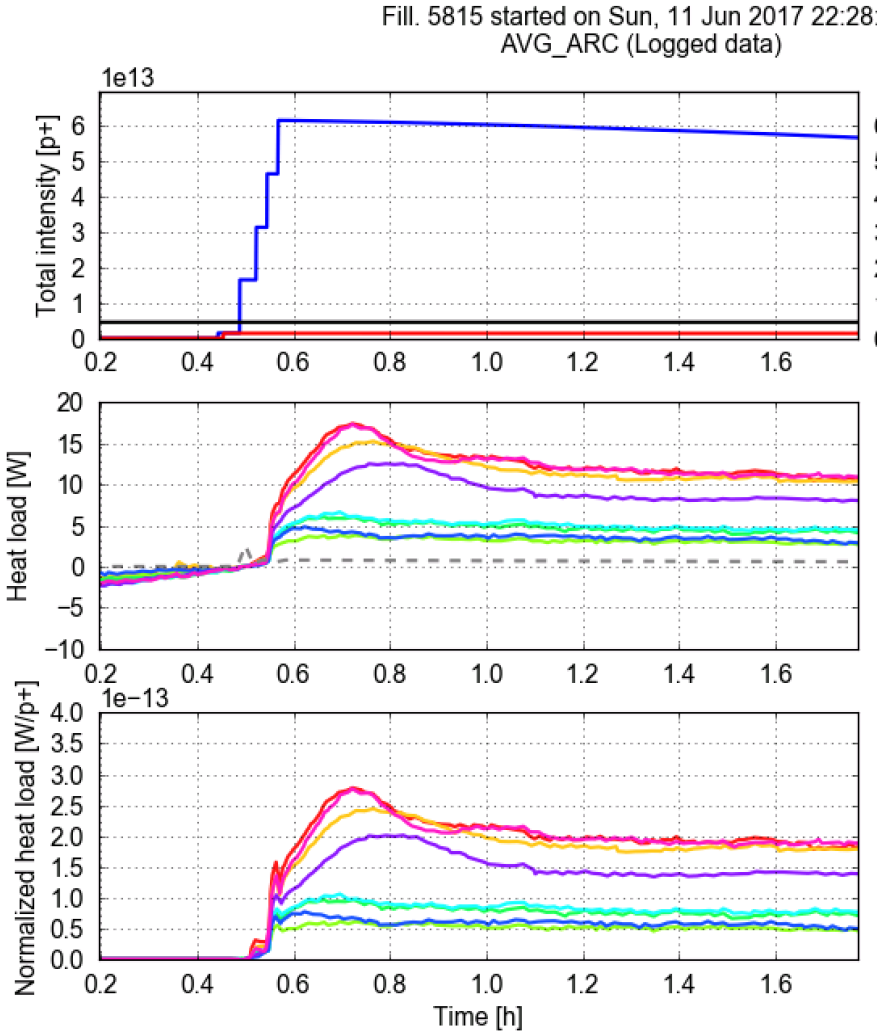
	B1 only	B2 only
Fill	5813	5812
Started on	11 Jun 2017 15:45	11 Jun 2017 13:22
T_sample [h]	1.45	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	2760/12	12/2760
Intensity (B1/B2) [p]	2.88e14/1.21e12	1.41e12/2.85e14
Bun.len. (B1/B2) [ns]	1.14/1.09	1.13/1.28
H.L. S81 (avg) [W]	62.42	60.14
H.L. S81 (std) [W]	38.09	34.81
H.L. exp. imped. [W]	3.33	2.77
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.90	0.30

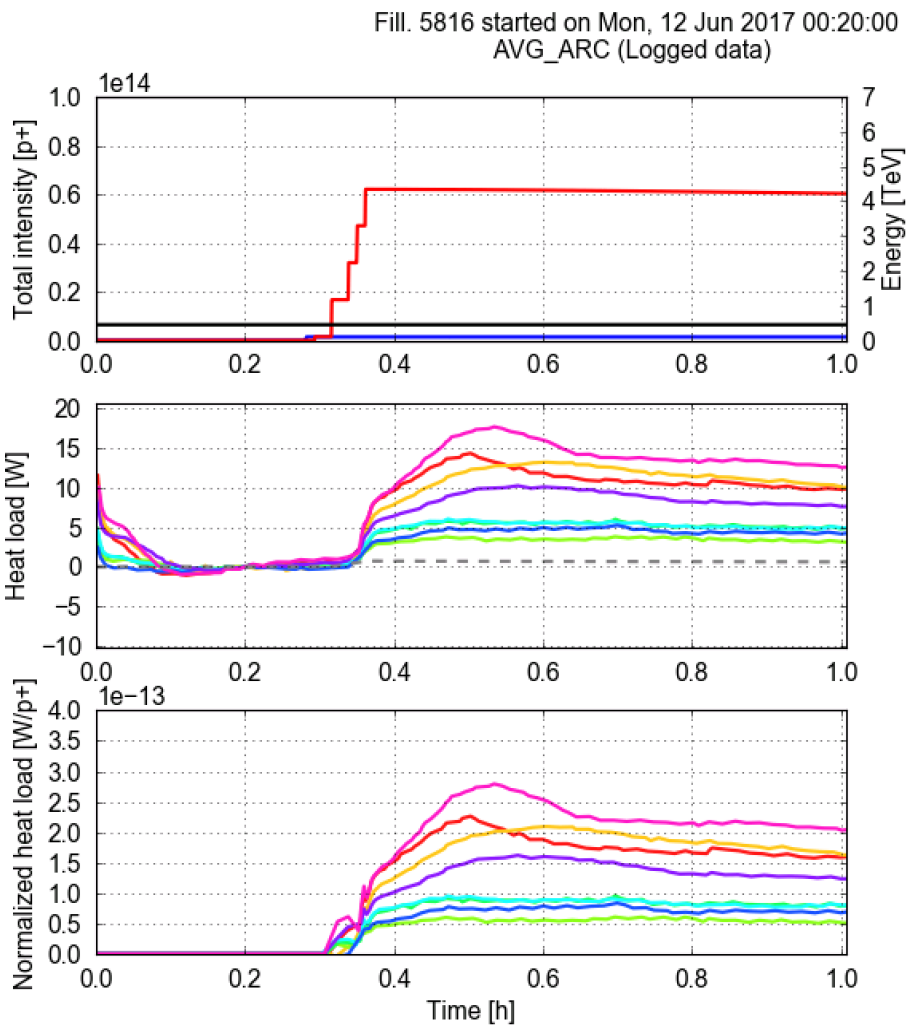
2017
450 GeV 4

Comparison made with 588b in trains of 144b (spaced by 1 us)

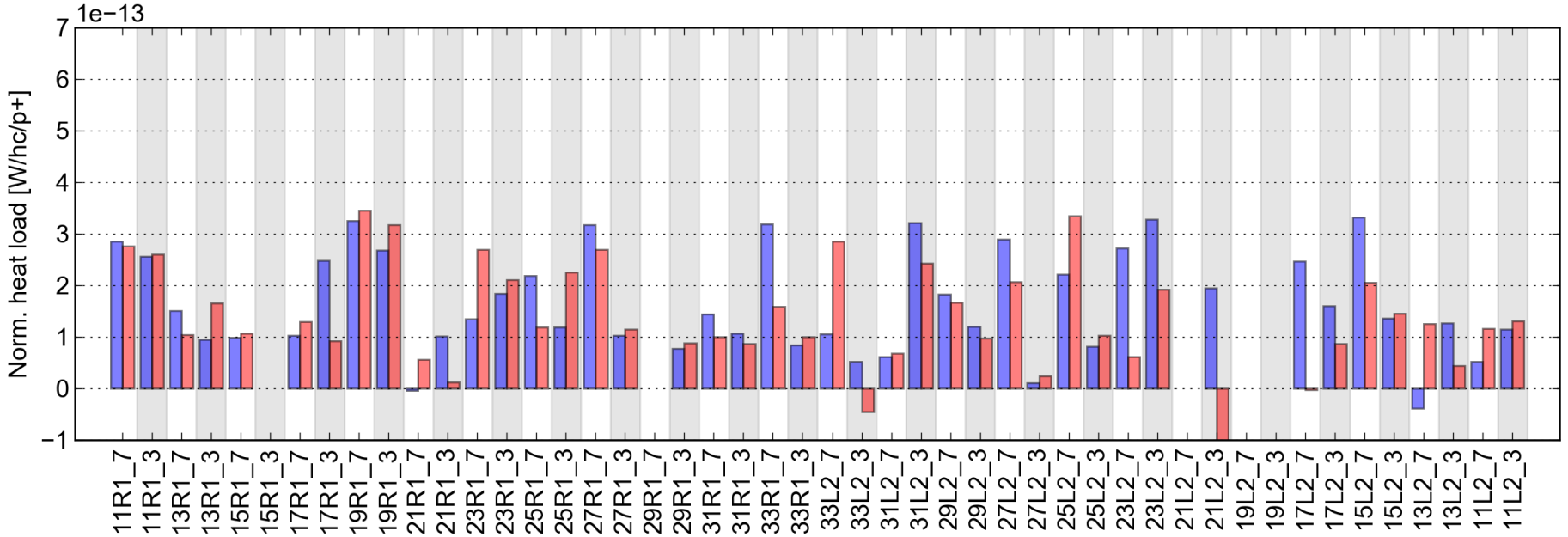

Fill. 5815 started on Sun, 11 Jun 2017 22:28:45
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]

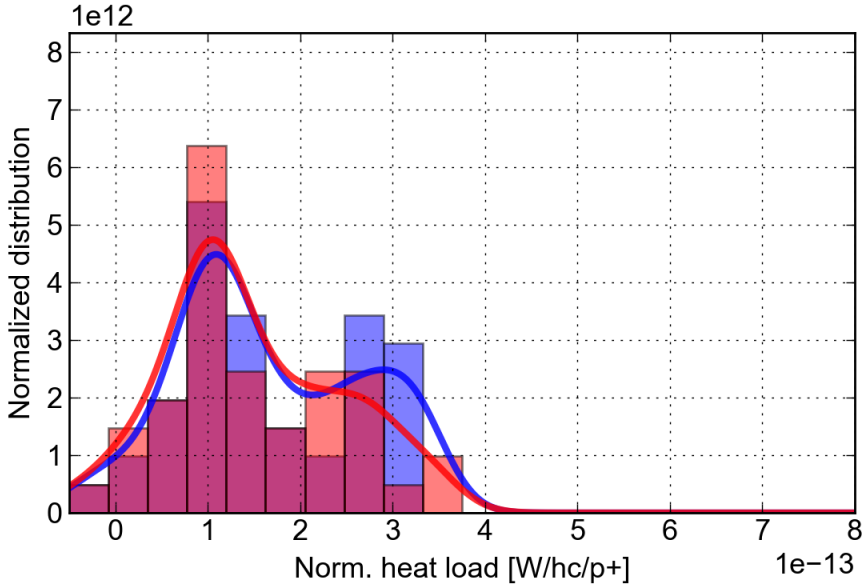

Fill. 5816 started on Mon, 12 Jun 2017 00:20:00
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
Bunch length [ns]
Time [h]


Fill. 5815 started on Sun, 11 Jun 2017 22:28:45
AVG_ARC (Logged data)
1e13
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]


Fill. 5816 started on Mon, 12 Jun 2017 00:20:00
AVG_ARC (Logged data)
1e14
Total intensity [p+]
Energy [TeV]
Heat load [W]
1e−13
Normalized heat load [W/p+]
Time [h]

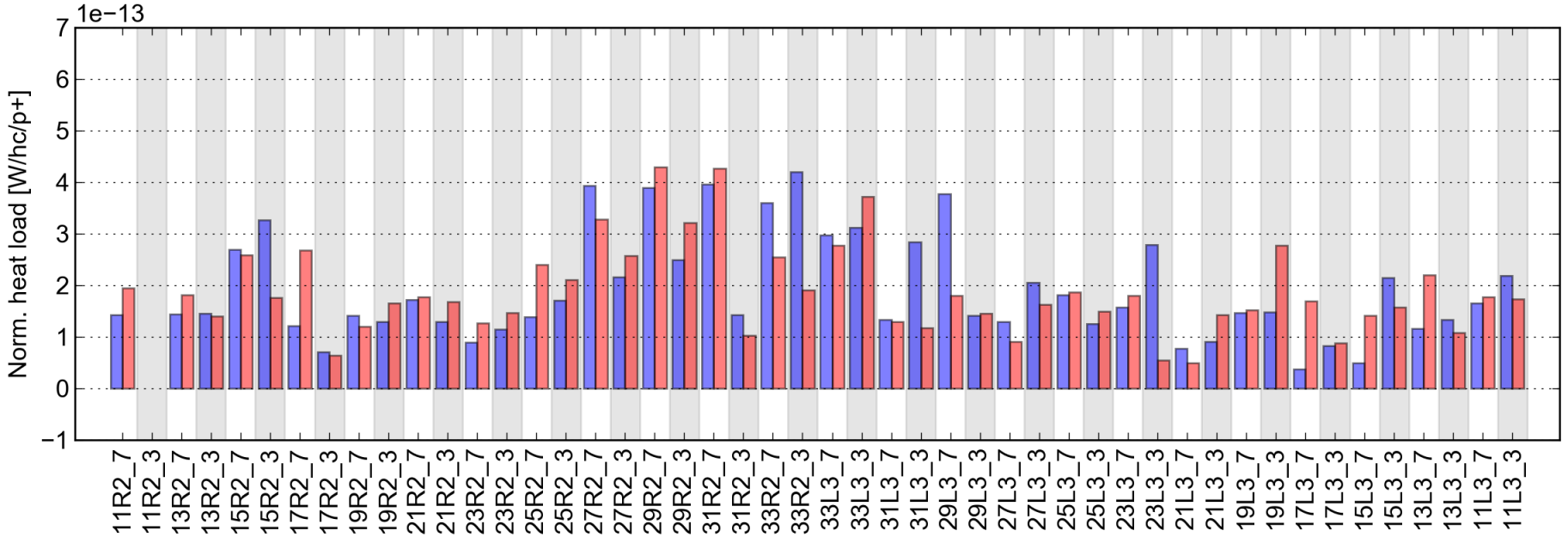
Sector 12, 48 cells, recalc. values

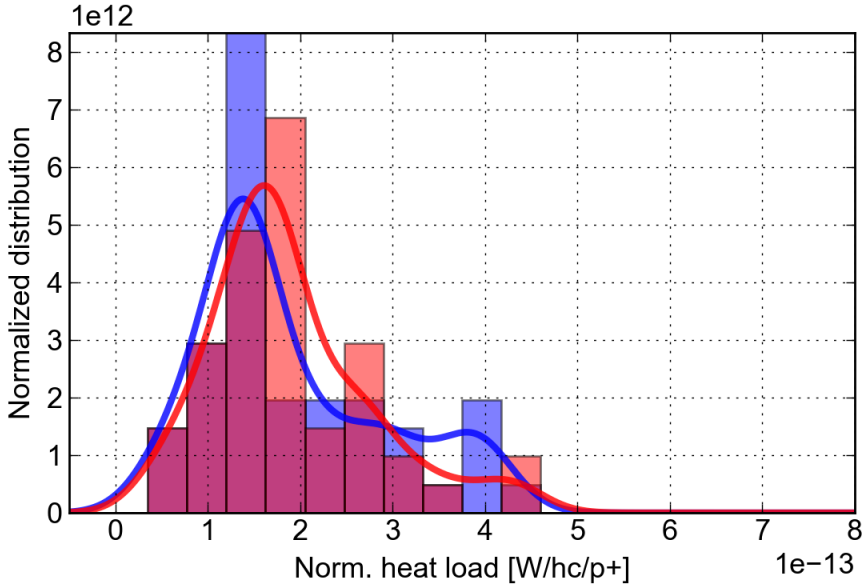




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S12 (avg) [W]	9.84	8.73
H.L. S12 (std) [W]	5.90	6.46
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

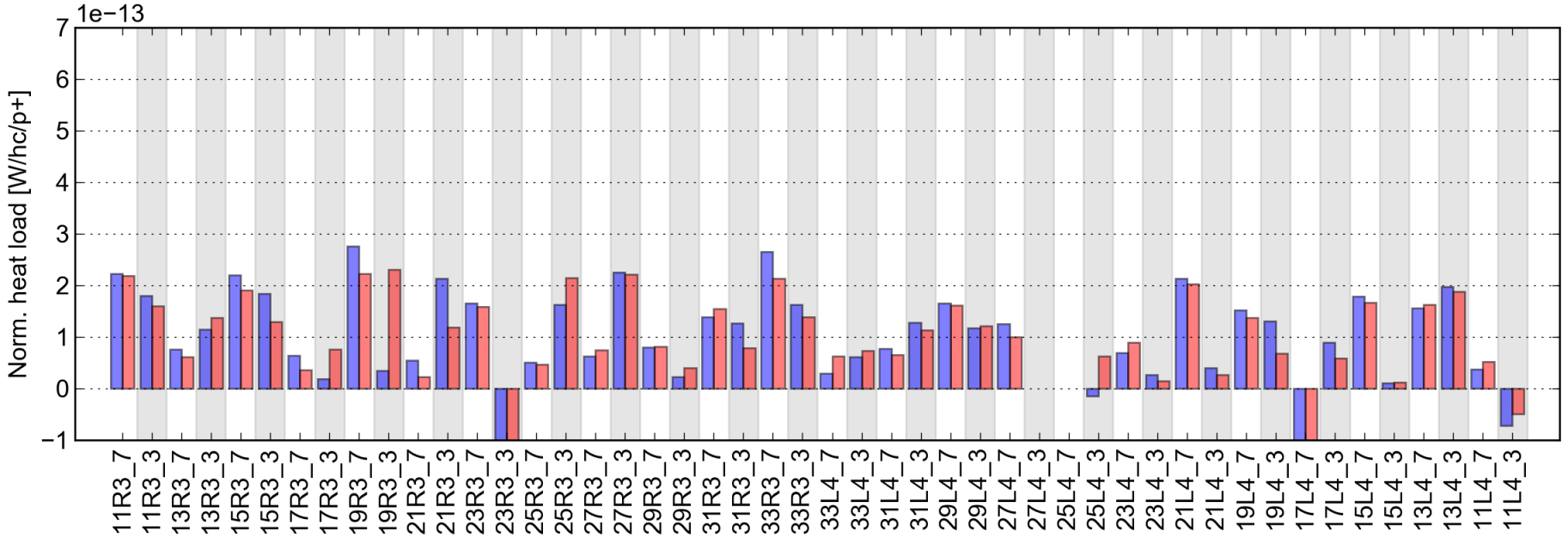
Sector 23, 48 cells, recalc. values

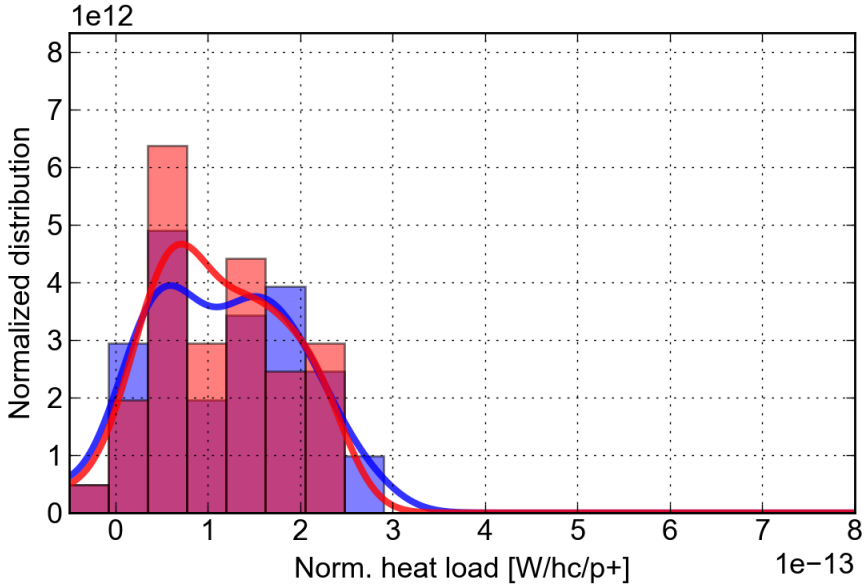




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S23 (avg) [W]	11.37	11.72
H.L. S23 (std) [W]	5.97	5.33
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

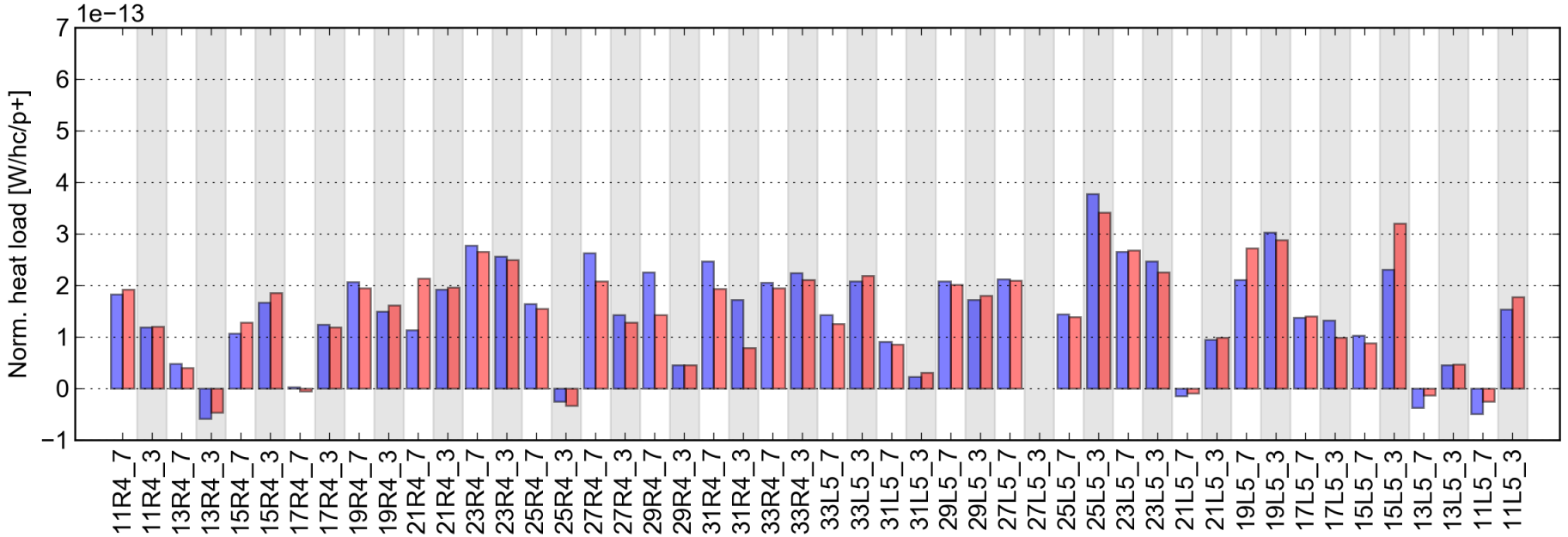
Sector 34, 48 cells, recalc. values

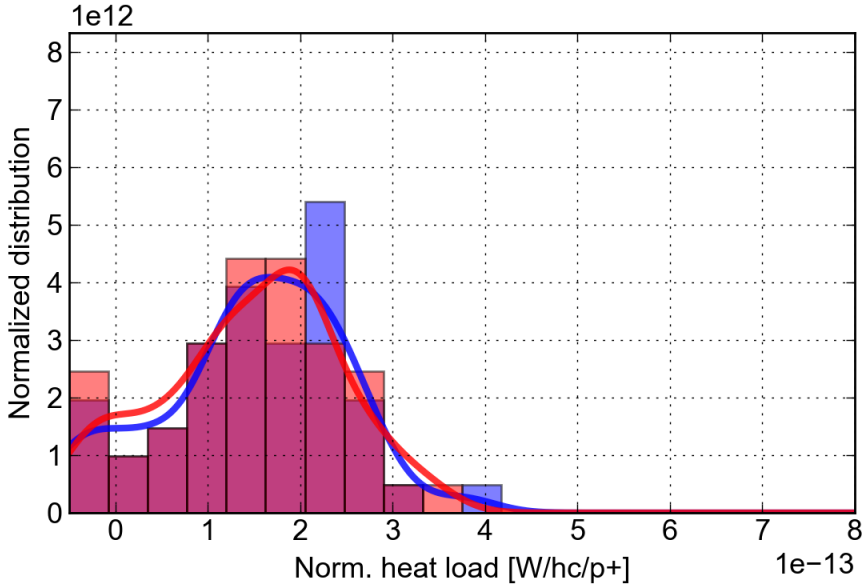




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S34 (avg) [W]	5.99	6.13
H.L. S34 (std) [W]	6.19	5.88
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

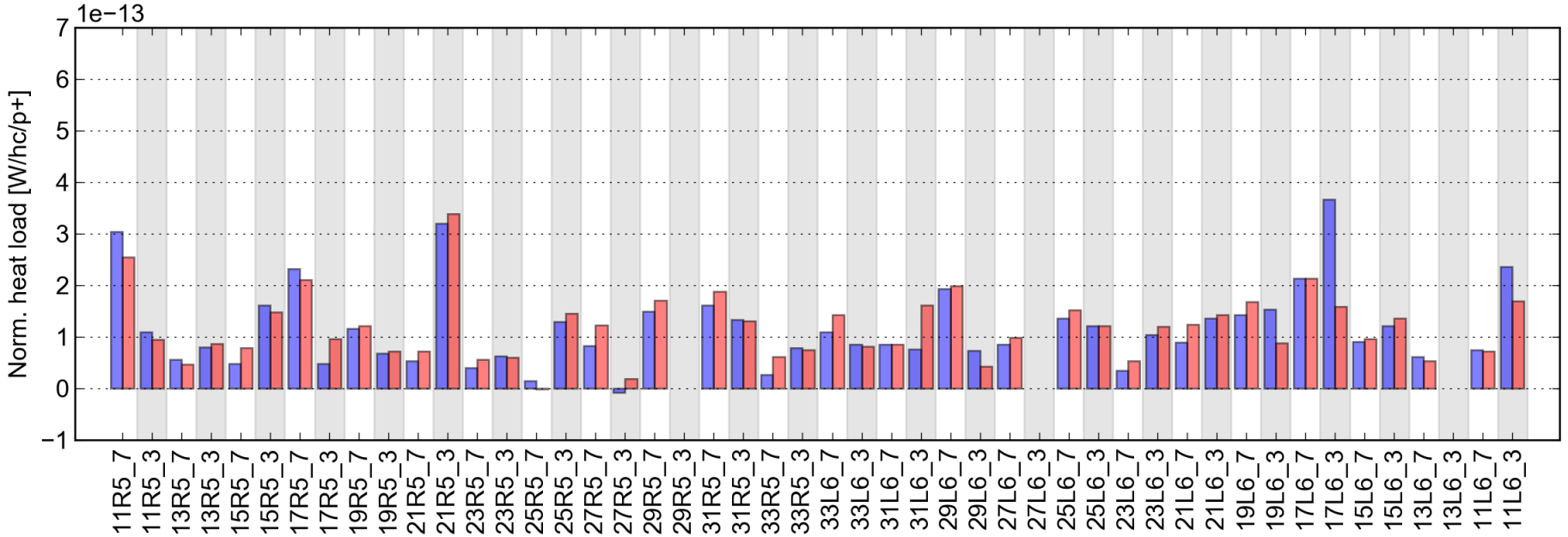
Sector 45, 48 cells, recalc. values

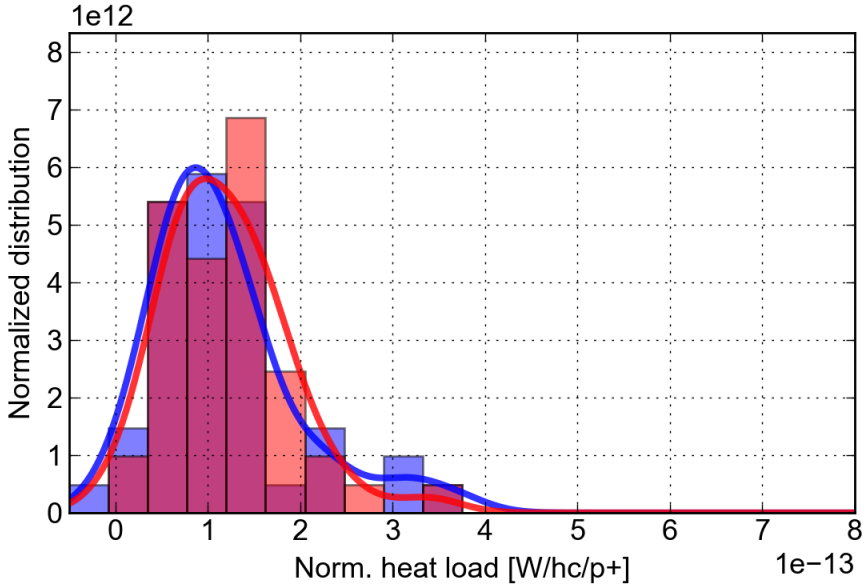




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S45 (avg) [W]	8.81	9.07
H.L. S45 (std) [W]	5.81	5.90
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

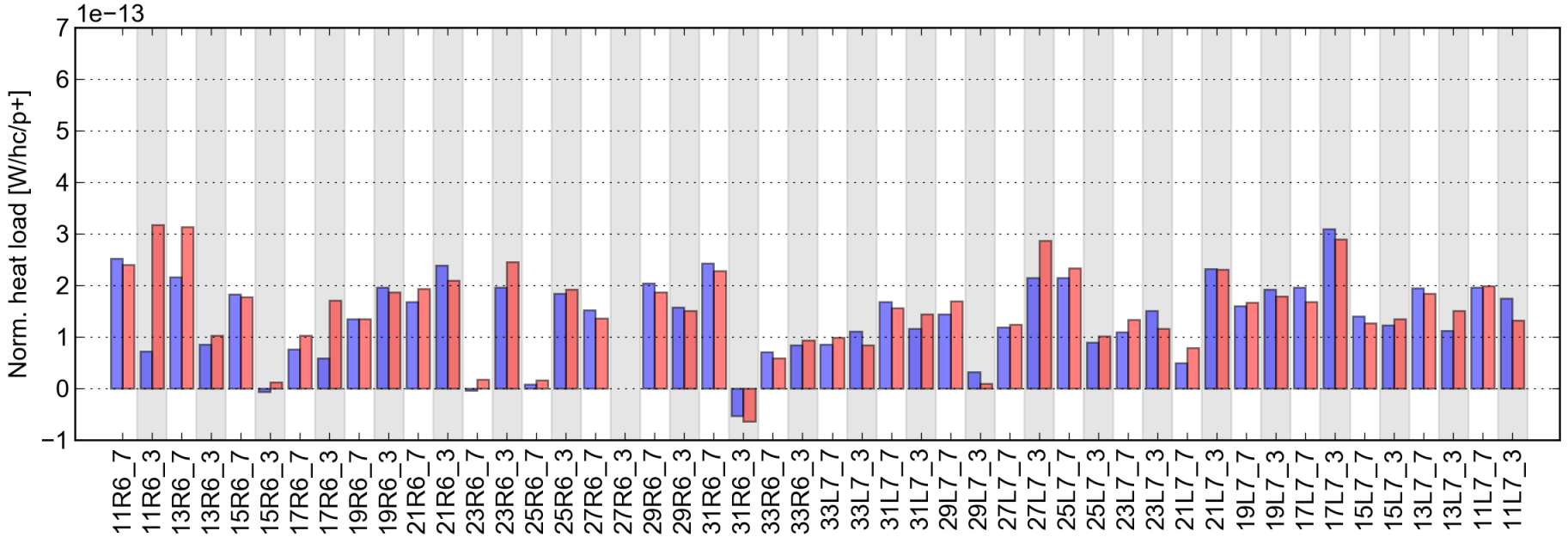
Sector 56, 48 cells, recalc. values

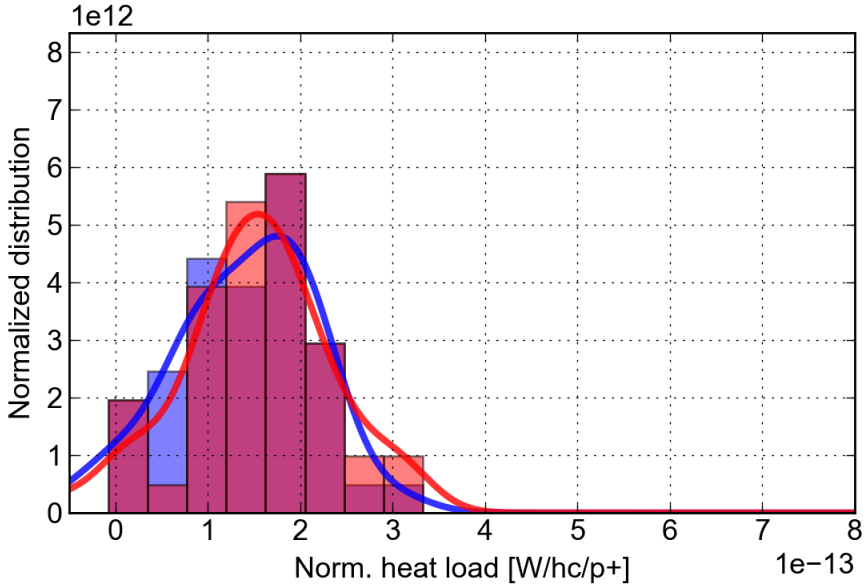




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S56 (avg) [W]	6.97	7.38
H.L. S56 (std) [W]	4.66	3.95
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

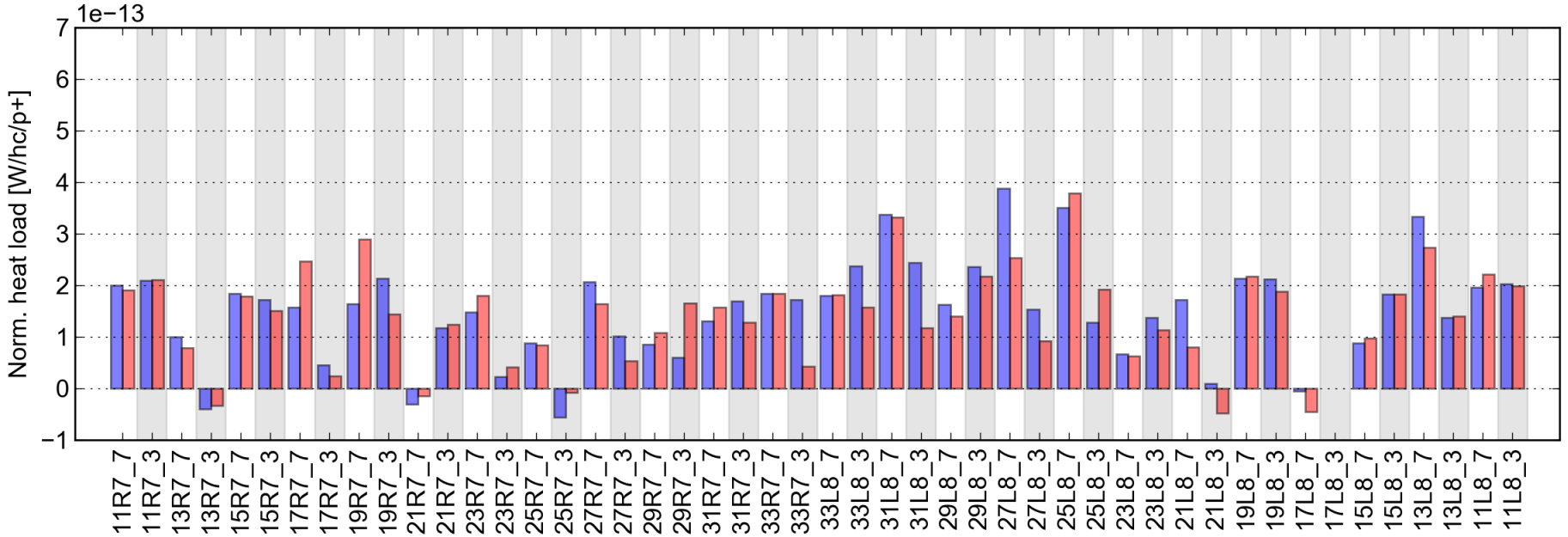
Sector 67, 48 cells, recalc. values

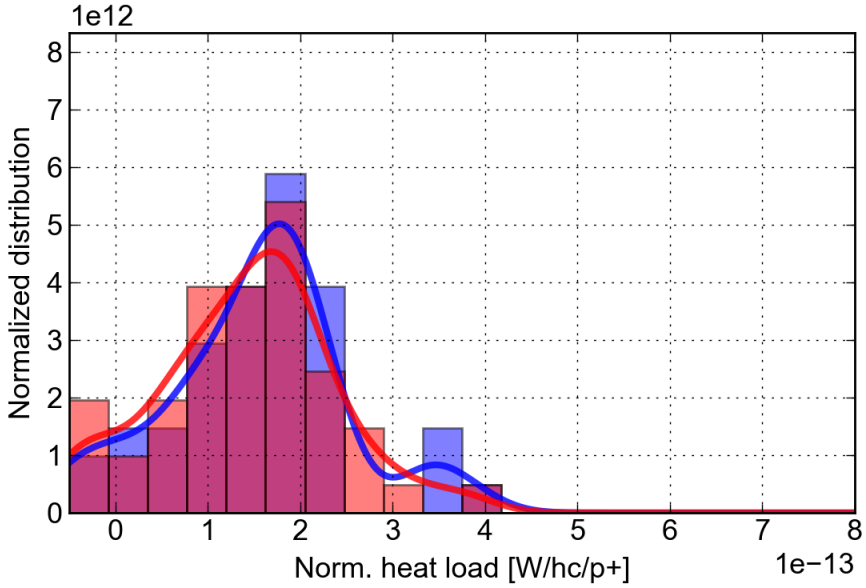




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S67 (avg) [W]	8.30	9.43
H.L. S67 (std) [W]	4.50	4.96
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

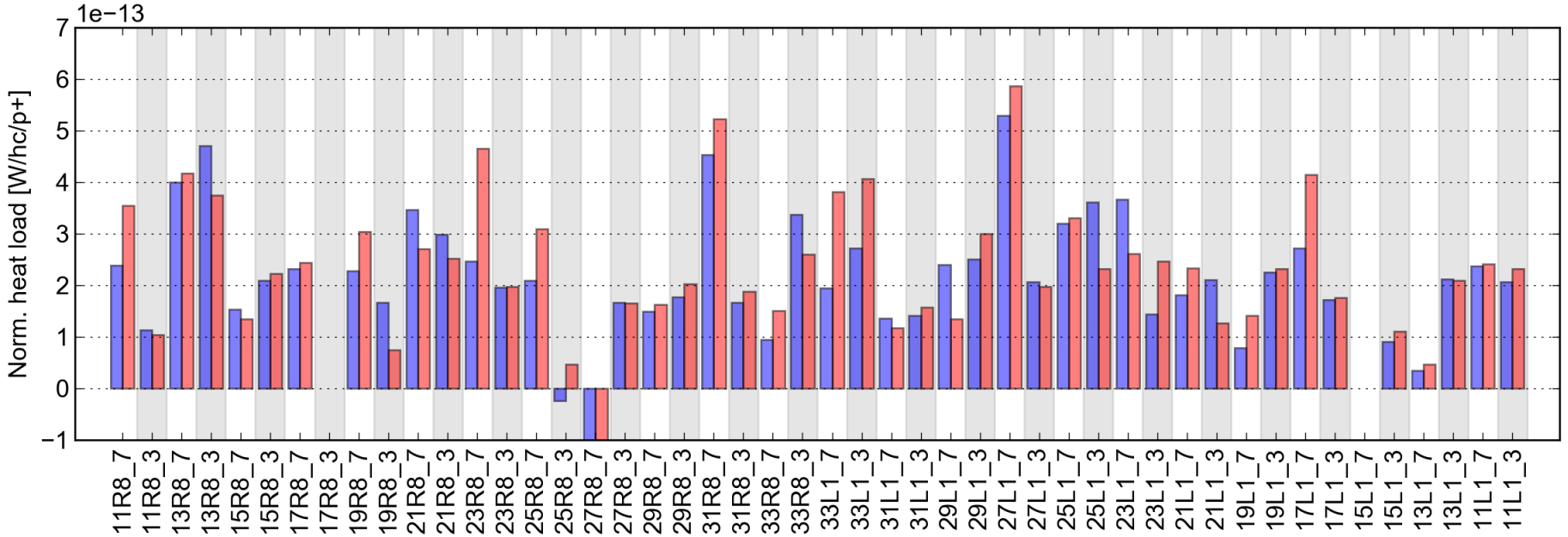
Sector 78, 48 cells, recalc. values

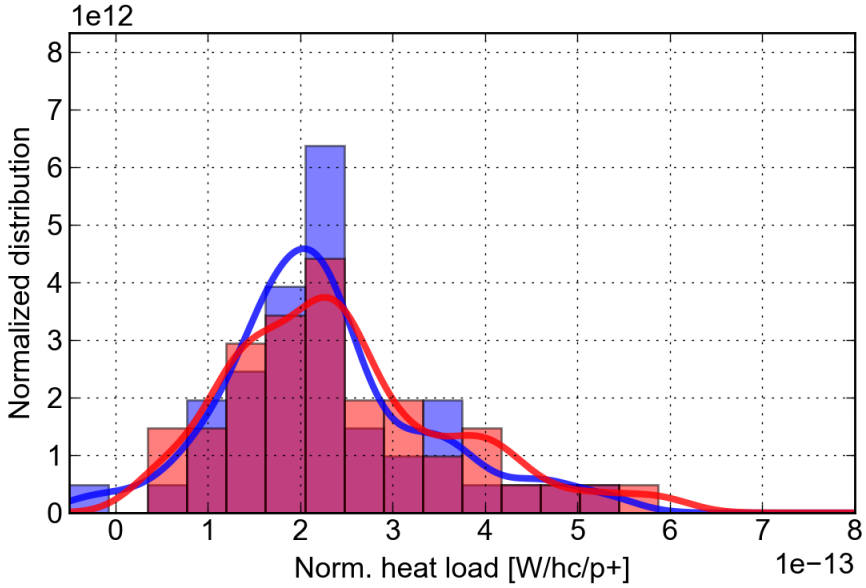




	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S78 (avg) [W]	9.09	8.79
H.L. S78 (std) [W]	5.73	5.81
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20

Sector 81, 48 cells, recalc. values





	B1 only	B2 only
Fill	5815	5816
Started on	11 Jun 2017 22:28	12 Jun 2017 00:20
T_sample [h]	1.50	0.90
Energy [GeV]	450	450
N_bunches (B1/B2)	588/12	12/588
Intensity (B1/B2) [p]	5.81e13/1.35e12	1.40e12/6.07e13
Bun.len. (B1/B2) [ns]	1.18/1.15	1.13/1.22
H.L. S81 (avg) [W]	12.87	14.59
H.L. S81 (std) [W]	7.32	8.23
H.L. exp. imped. [W]	0.62	0.64
H.L. exp. synrad [W]	0.00	0.00
T_nobeam [h]	0.40	0.20