


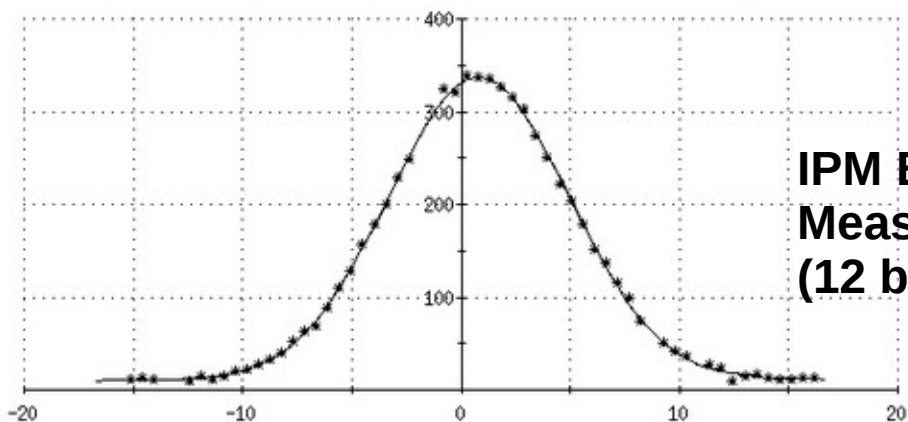
DX Aperture Measurement

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April 23, 2014 APEX Session

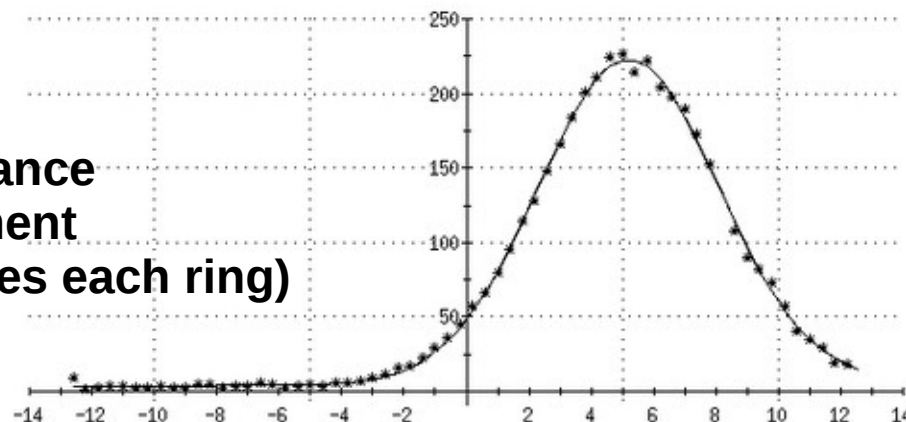
Blue_Horizontal

Time stamp	04/23/14--23:02:41	Emittance [pi*um]	8.92	Details
Bucket	80	Sigma [mm]	4.1	
Intensity	6.33e+03	Fit Error	0.029	




Blue_Vertical

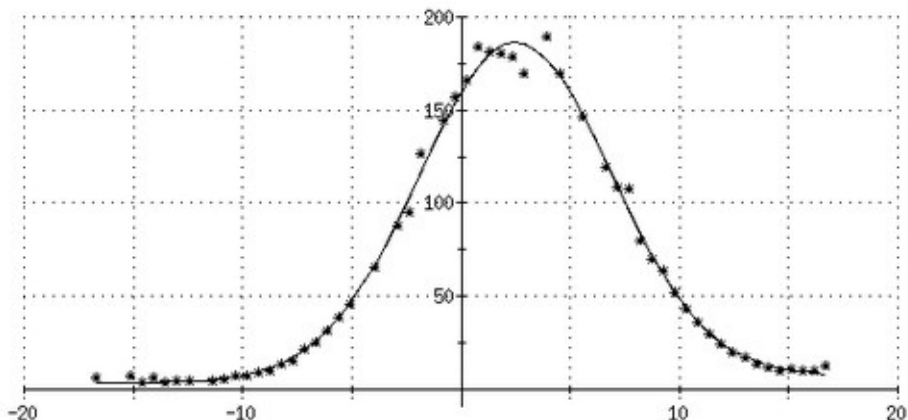
Time stamp	04/23/14--23:02:41	Emittance [pi*um]	8.14	Details
Bucket	80	Sigma [mm]	2.87	
Intensity	4.08e+03	Fit Error	0.038	




IPM Emittance Measurement
(12 bunches each ring)

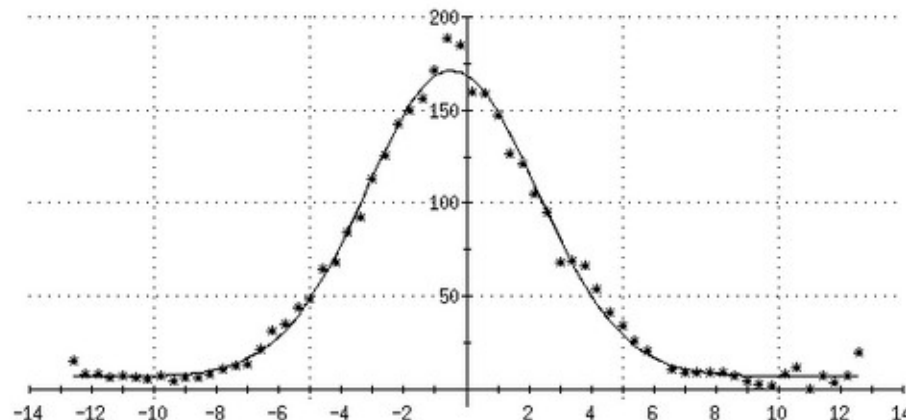
Yellow_Horizontal

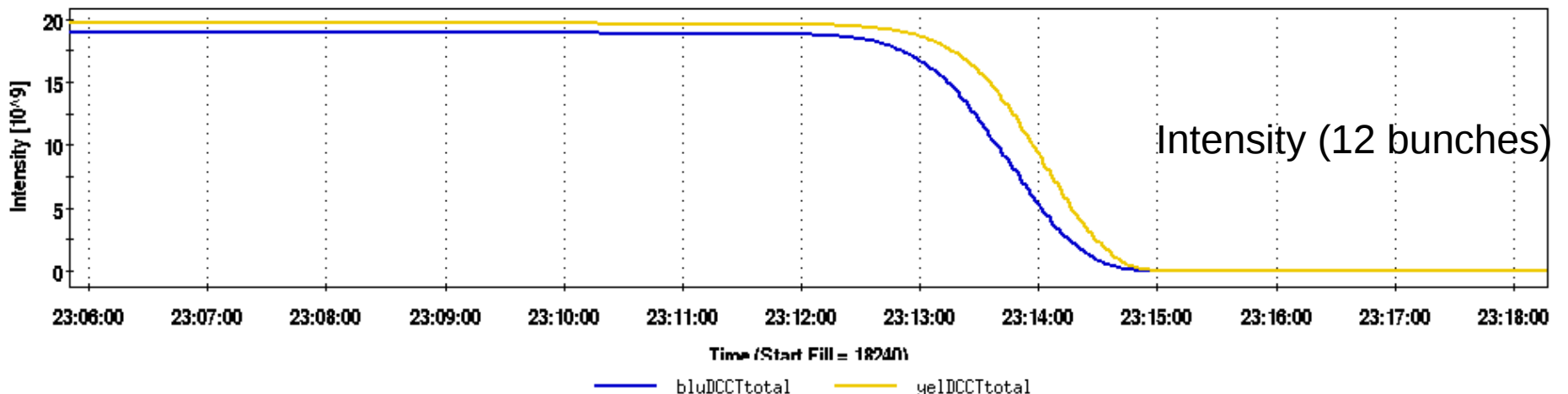
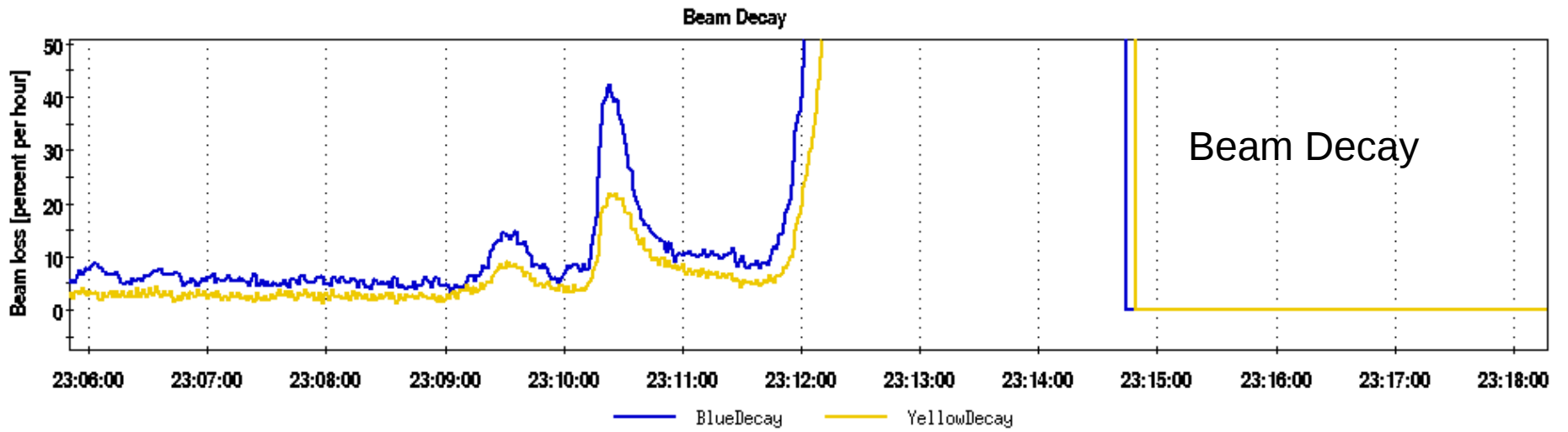
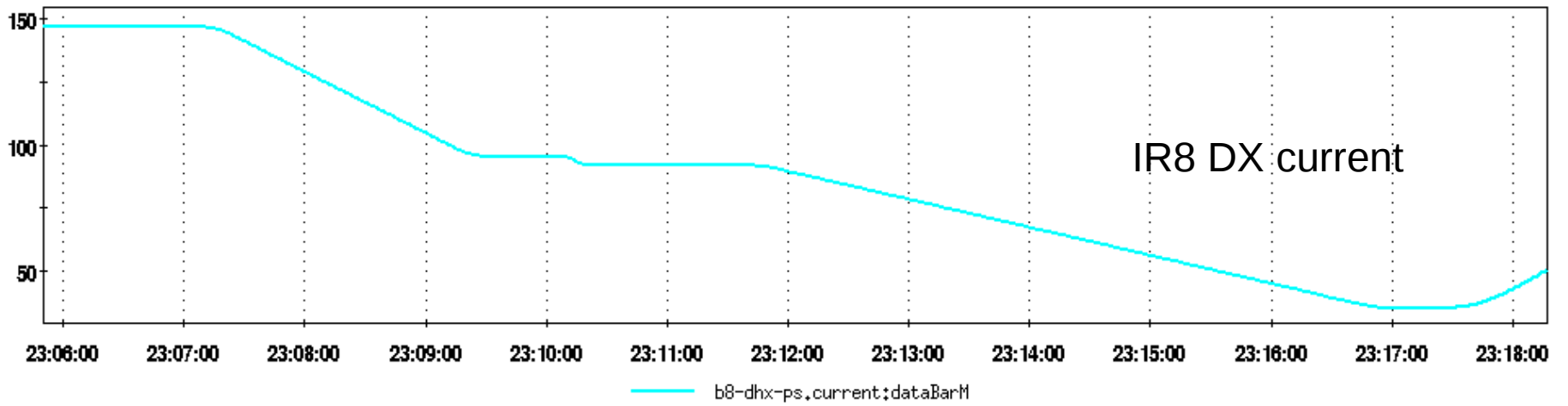
Time stamp	04/23/14--23:02:41	Emittance [pi*um]	10	Details
Bucket	80	Sigma [mm]	4.39	
Intensity	3.35e+03	Fit Error	0.068	

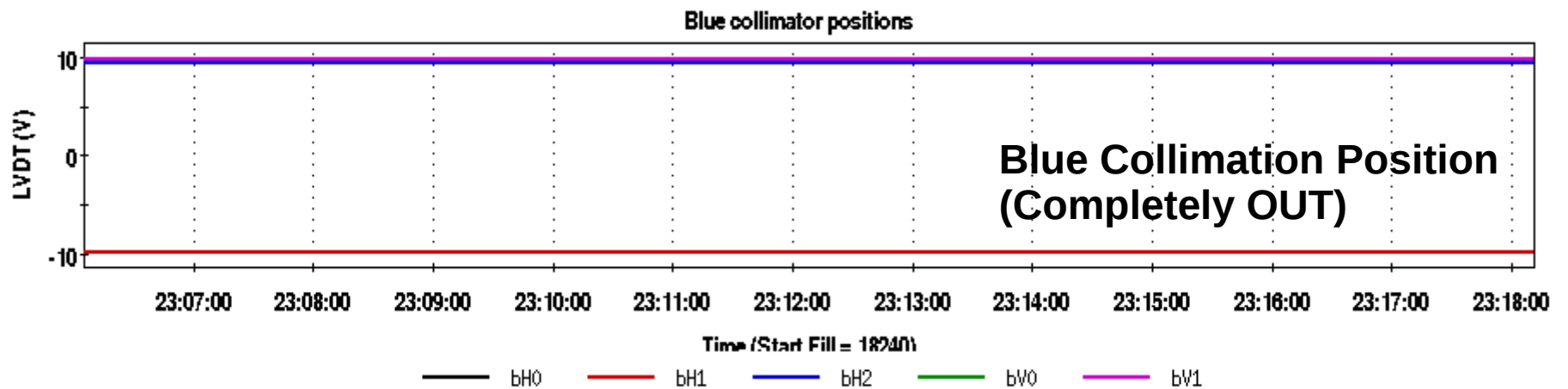
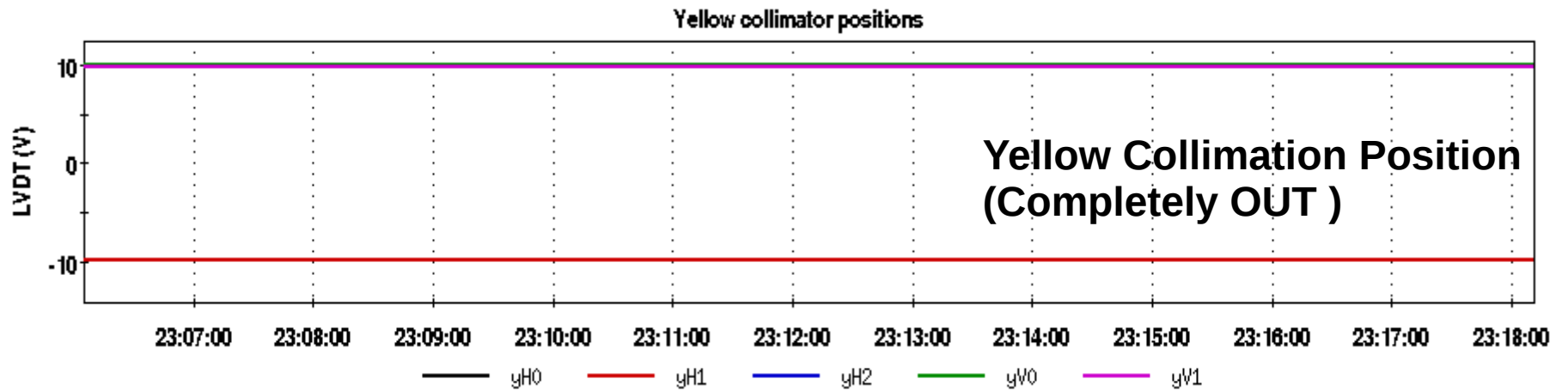
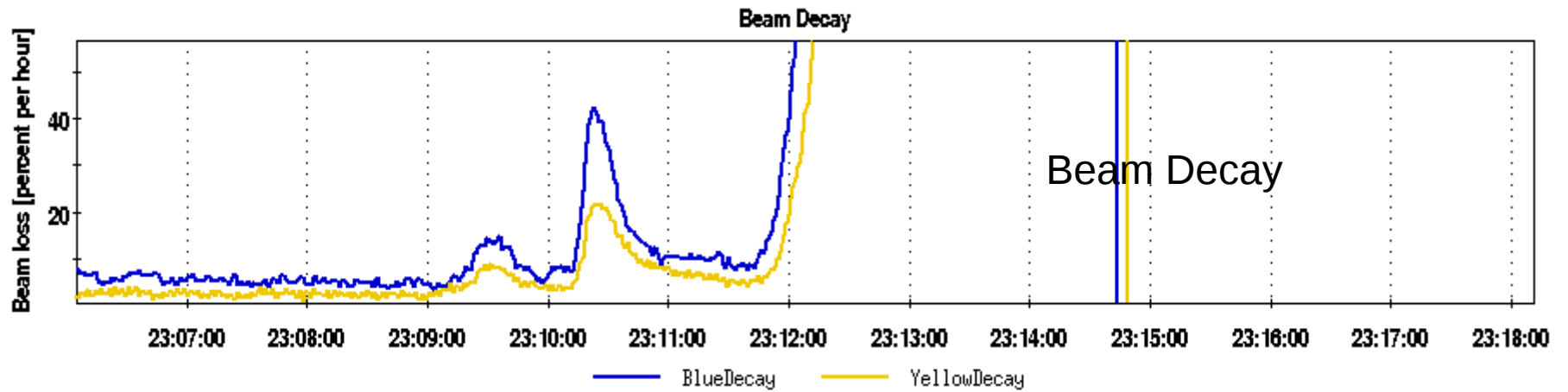


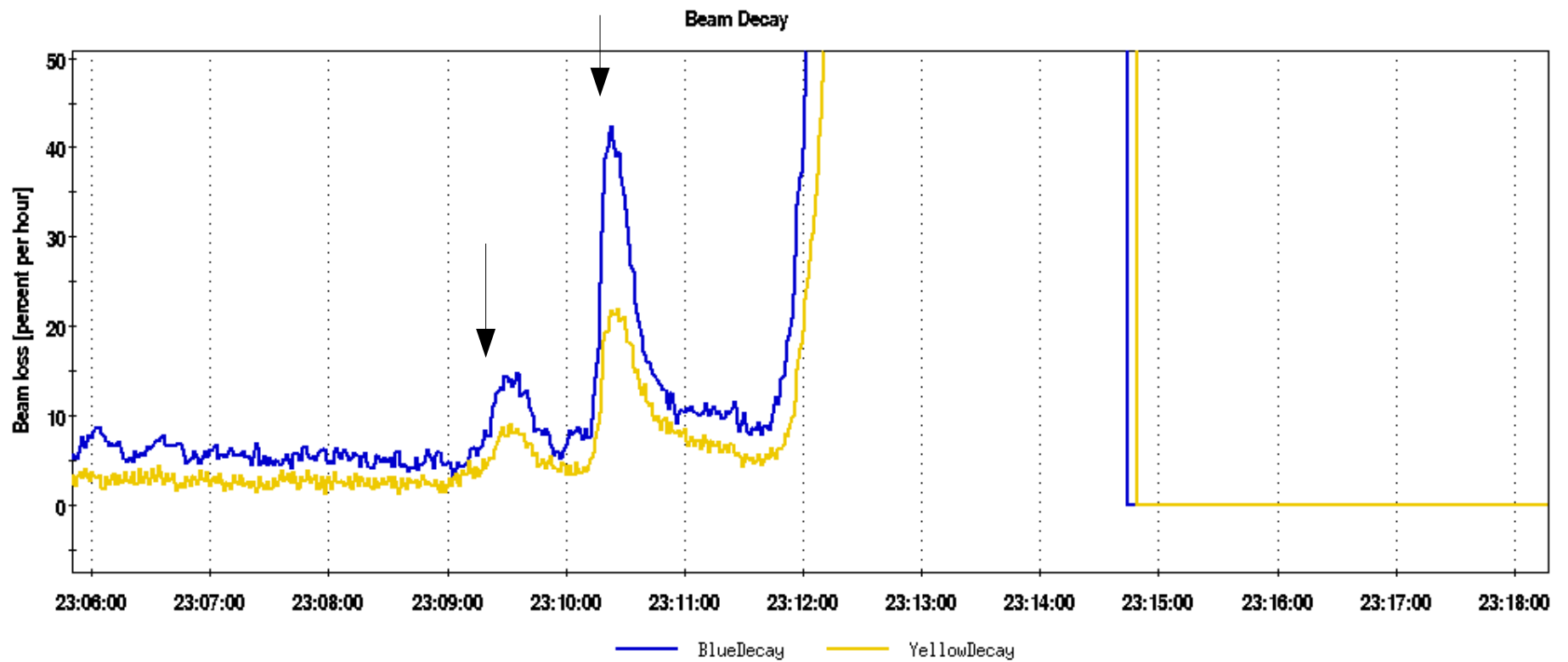
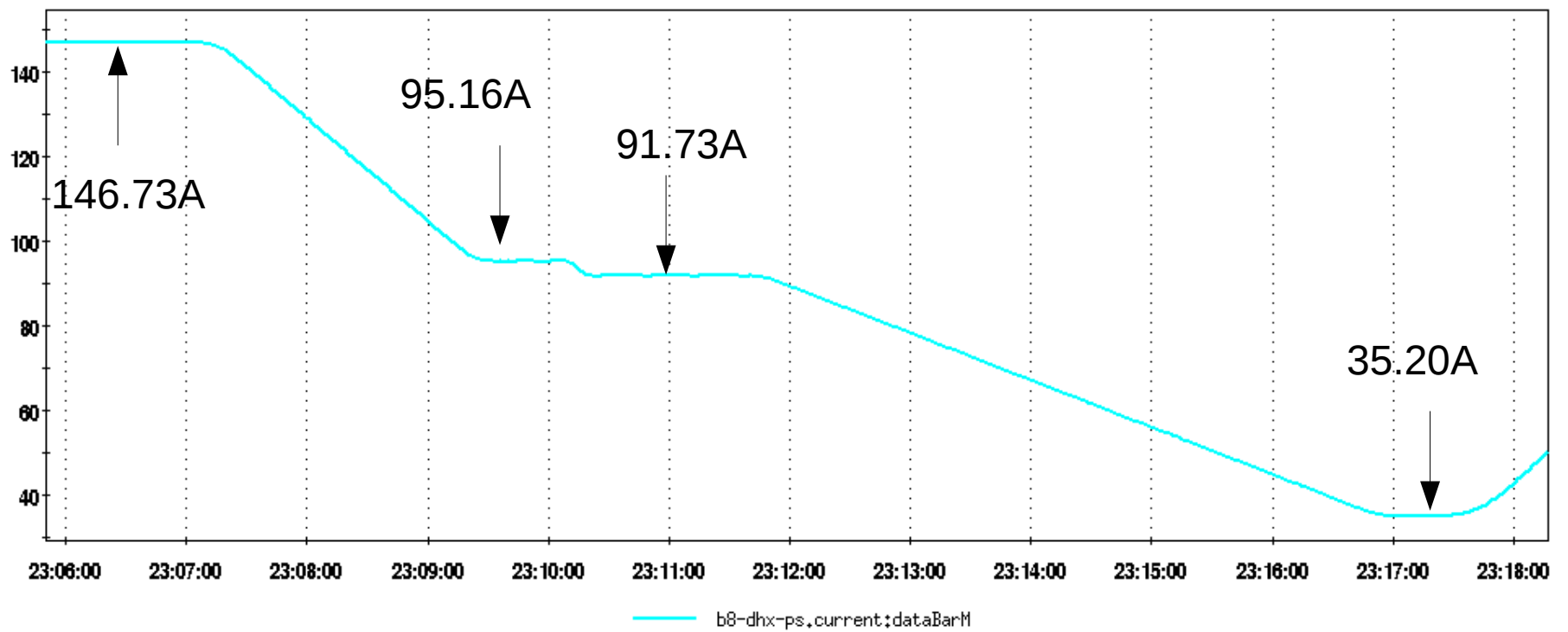
Yellow_Vertical

Time stamp	04/23/14--23:02:41	Emittance [pi*um]	7.57	Details
Bucket	80	Sigma [mm]	2.72	
Intensity	3.25e+03	Fit Error	0.093	









Observations

- 1) IPM emittance measurement: 9.5 Pi mm.mrad (averaged) with 12 bunches
- 2) Collimators were pulled out during this experiment at injection
- 3) 12 bunches each ring

- 3) Slowly ramp tilt angle, beam loss started at 95A of DX PS. Last session we observed loss started at 97A. Further opening the angle always gave extra beam loss even we paused for some time.
- 4) 95A of DX PS corresponds 1.50mrad (half angle) at IR8
- 5) The beam loss was localized, no orbit leakage out of IR8.

12 bunches results reproduced previous observation with 1 bunch.