

Summary Model Solver

IP6 Yellow Stone: Au14-v0::injection Fill#: 18125 Time: Wed Mar 26 17:05:41 2014

Measured Base Tunes

Type	Q_1	Q_2	ΔQ_{\min}
Value	0.228850080242	0.216250279551	0.000726338487944
\pm Sigma	0.000255242893912	0.000255242893912	0.00015540407504

Measured Tweak Tunes

Quad	Device	ΔKL	Q_1	Q_2	ΔQ_{\min}
q1b	yo5-qd1	0.0001	0.229513098438	0.215816286165	0.000614670851115
	\pm Sigma		0.000111052866868	0.000343439180309	0.000137582248398
q2b	yo5-qf2	0.0001	0.230014919385	0.215672395669	0.000604046297895
	\pm Sigma		0.000123249875222	0.000106098752582	0.000142799538906
q3b	yo5-qs3	-0.0001	0.228975703194	0.216201174929	0.00110170626818
	\pm Sigma		0.000126474402206	0.000101074280697	0.000141248062217
q3e	yi6-qs3	0.0001	0.228949023461	0.216092486803	0.00230133524961
	\pm Sigma		0.000118027499373	0.000113375747809	0.000213259841744
q2e	yi6-qd2	0.0001	0.229507031643	0.215344306484	0.000779508265938
	\pm Sigma		0.000126121354804	0.000240301286701	0.000170835757625
q1e	yi6-qf1	0.0001	0.229592030255	0.21557379544	0.000785964009844
	\pm Sigma		0.00011544917218	9.7074361175e-05	0.000178690654798

Summary

Name	Value	\pm Sigma	Name	Value	\pm Sigma
α_1	0.1493581	0.4751	α_2	-0.070341199	0.6714
β_1	8.6751345	2.341	β_2	9.9009013	4.381
S_1^w	1.267428	3.871	S_2^w	-0.69301233	6.557
β_1^w	8.4858338	2.575	β_2^w	9.852154	4.456
a	0.051647812	0.06836	b	-0.22682878	1.624
c	0.0030253419	0.01573	d	0.0035400523	0.05789

Open

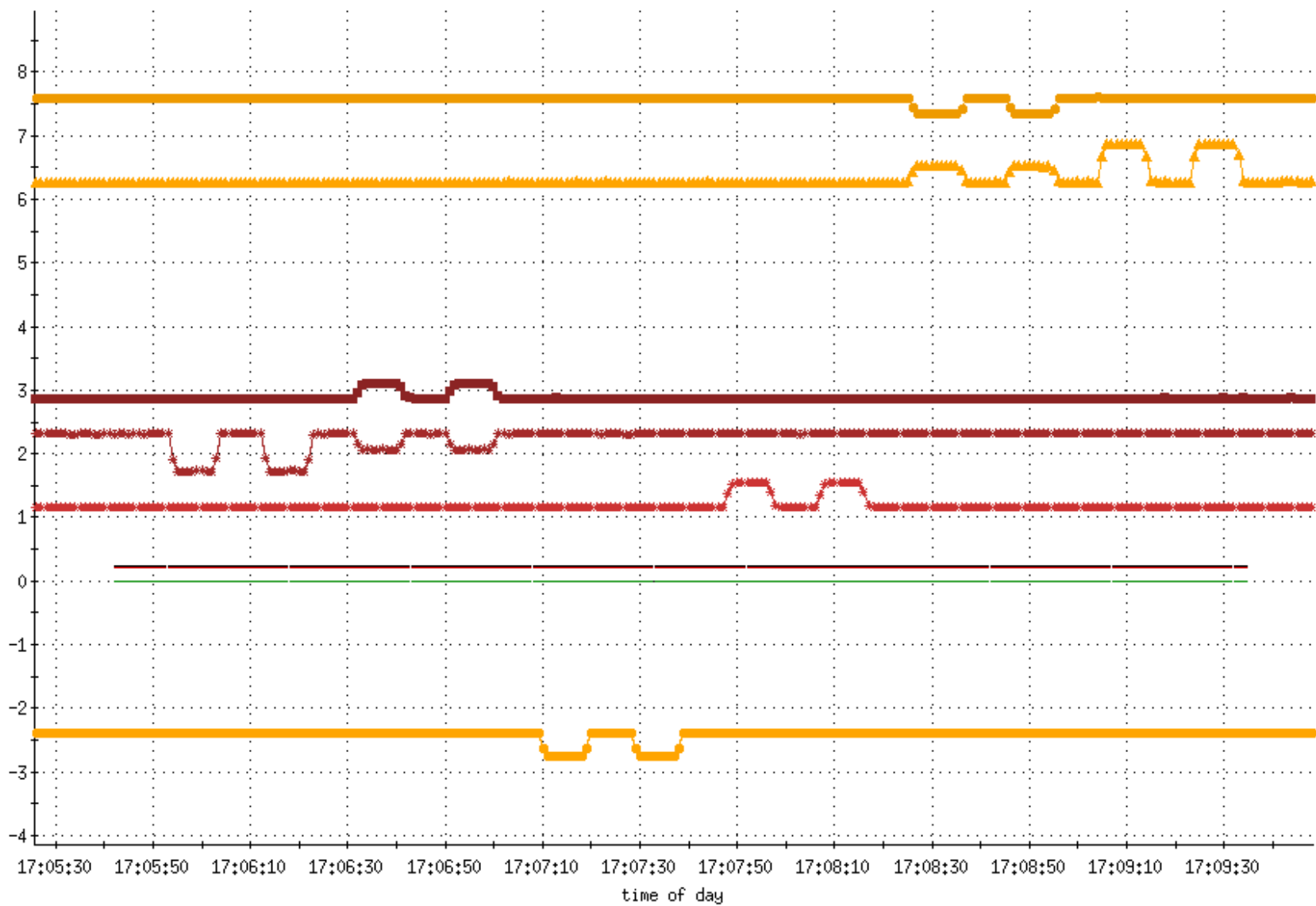
Save

Measure

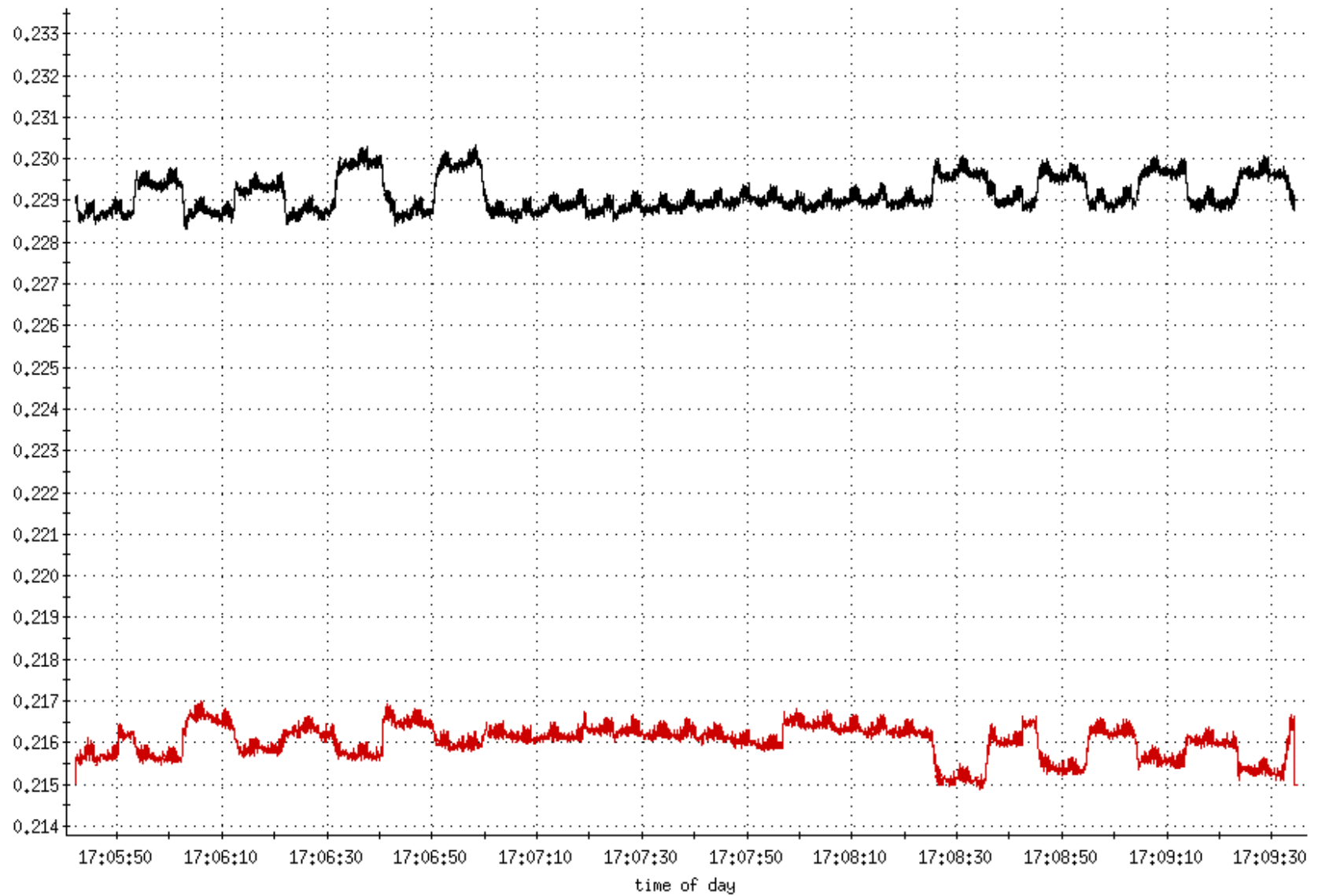
Edit Tunes Off

Quit

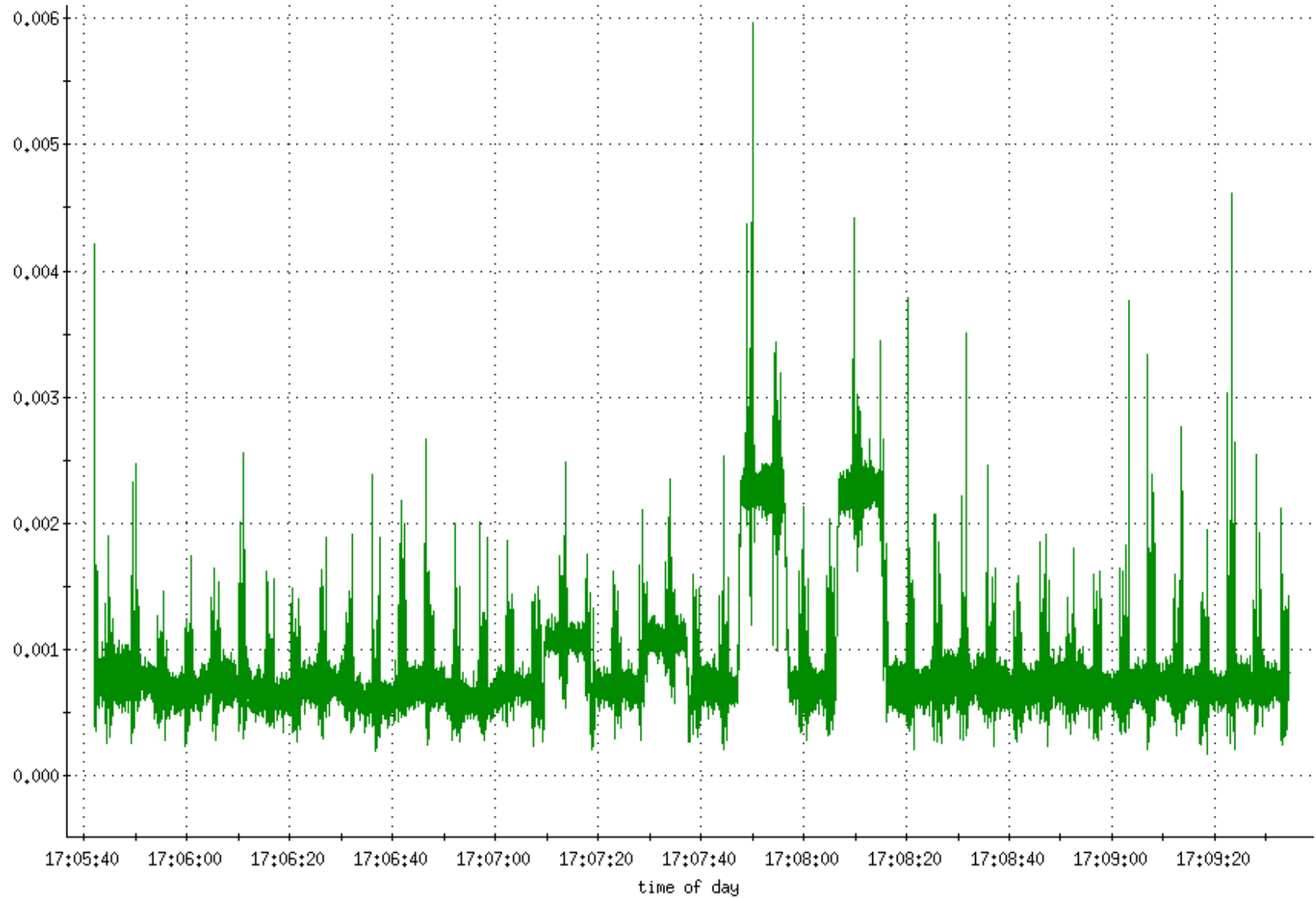
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Status

- Had about 1/2 hour of beam time at injection
- Automated setting of the Quadrupole shifts worked as expected.
 - Didn't lose the beam (out of 4 tries with increasing shifts)
 - A measurement takes about 5 minutes
- Large sigma errors in final results
 - Booster must be turned off for good tune measurements
 - BetaStar also failed to give results (for a comparison)
- Problems with saving the data files
 - Some of the tune measurements didn't save their sigmas.
- Request another try