The Story So Far

February 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	0 1 1 1 15	16
10	4K Wave		13	14	Cold in 15	16
	4K Wave				both rings	
ď	P12 lattice	test eveni	na ²⁰	21	22	23
· · · · · · · · · · · · · · · · · · ·		tost cverii	PS worl	k during Da	av	
C GOVO 24	25	First Colli			vernight St	ores
'S gave ²		First Colli	sions)9x109	
s e-lens				1 (J3X 103	
				_	Start Pr	l vsics
					Clart	193103

http://blankcalendar2013.com

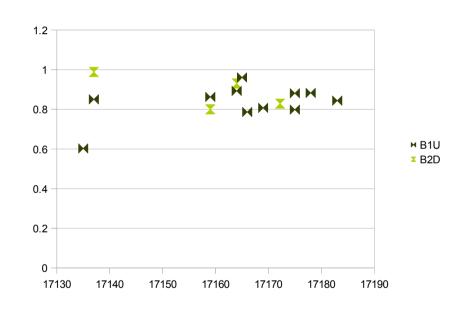
March 2013

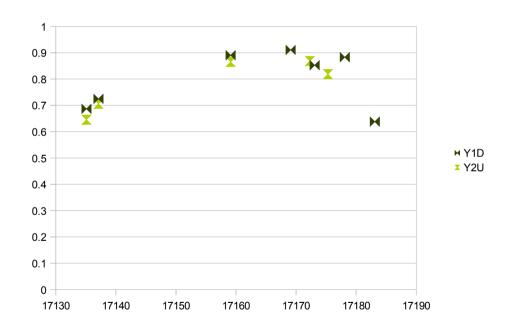
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	1 5PA	16
	6 hour	stores wit	th tune be	tween	Mainte	nance
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Issues past week

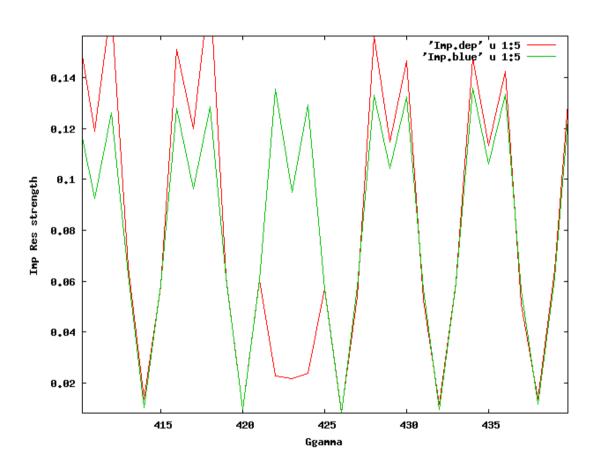
- OPPIS down last Friday ran with unpolarized store
- Many issues getting through store ramp
 - Feedback issues
 - Approach to 2/3 resonance
- Polarization still low and RHIC TM efficiency ~ 0.8-0.85
 - Restored snake settings for early part of energy ramp
 - Lowered earlier in ramp
 - Measured Polarization on ramp: identified gg422 as our culprit. Due to large Imperfection Resonances caused by larger separation bumps this year. Yellow suffers most
 - Measured Optics on Ramp using artus kicker

Polarization Transmission Efficiency in RHIC

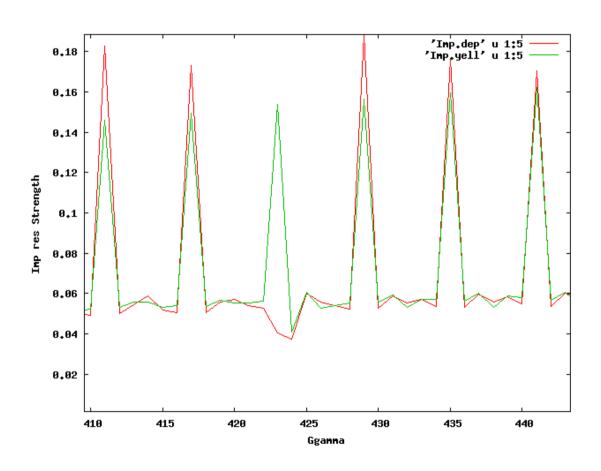




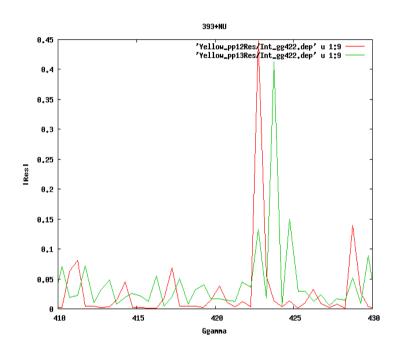
Blue Imperfection Bump

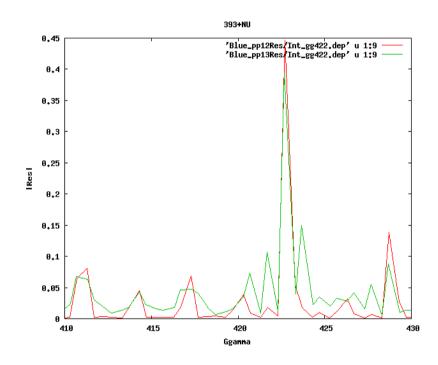


Yellow Imperfection Bump



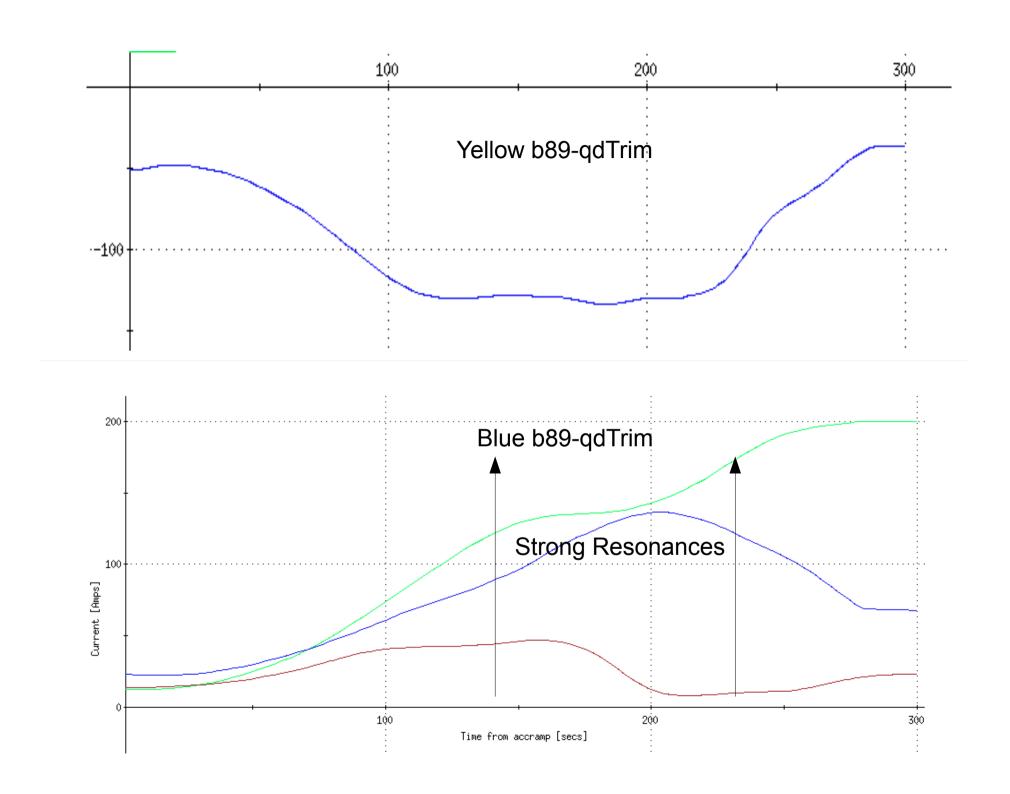
Design Resonance Structure





Reduced Resonances by 10 to 14%

Resonances	Blue (new-old)	Yellow (new-old)
231+NU	-0.0387	-0.0415
411-NU	-0.06134	-0.0655
393+NU	-0.05347	-0.0347



Future Plans

- Applied bump in Yellow just now: If works apply to Blue
- Try and reduce separation bumps on ramp
- Understand and fix issues with rotator ramps