STAR will be Ready for Collider Cooldown by December 1, 2010.

For
The STAR Collaboration
October 20, 2010.

Major Tasks remaining prior to 12/1/10:

- Complete EEMC maintenance (~ 10/27)
- Annual RESC Safety review and Emissions Doc. Update (10/27?)
- Install electronics boards for monitoring TPC anode wires (~ 11/1)
- Replace remaining TPC LV supply capacitors (11/8 or sooner)
- Global Interlocks Certification (Week of 11/8?)
- Install East Poletip (11/15 or sooner)
- Fill Magnet with water and testing (can start late the week of 11/15)
- Install BBCs and VPDs (Last week of November)
- Trigger firmware (revisions into December)



STAR BUR11

Run	Beam Energy	Time	System	Goal
11	√s _{NN} = 18, 27 GeV*	2 weeks	Au + Au	100, 150M minbias
	√s _{NN} = 200 GeV	4 weeks	U + U	200M minbias 200M central
	√s = 500 GeV	5 weeks 6 weeks	$\begin{array}{c} p_{\uparrow} p_{\uparrow} \\ p_{\rightarrow} p_{\rightarrow} \end{array}$	trans. $P^{2*}L=4 \text{ pb}^{-1}$ long. $P^{2*}L=20 \text{ pb}^{-1}$
		1 week	$p_{\uparrow} p_{\uparrow}$	pp2pp at high β*

RHIC Run Plan for 2011 Physics Run

For Run 11 the PAC recommends the following (in order of priority):

- 8 weeks Au+Au heavy ion running at 200 GeV
- 10 weeks p+p polarized proton running at 500 GeV.
- 3. 1.5 weeks Au+Au heavy ion running at 18 GeV
- 4. 1.5 weeks U+U heavy ion running at 192 GeV (Au rigidity)
- 5. 1 week Au+Au heavy ion running at 27 GeV



Run11 Physics Programs

1) **Spin Physics (2011)**

- W± A_L at mid-y
- Light meson AN at forward-y
- Δg measurements at 500 GeV
 - DPE and hadronic spin-flip amplitude (if pp2pp running)

2) Heavy Ion Physics* (2011)

- Complete BES at 18 and 27 GeV including di-electron program at STAR
- U+U collisions: hydro limit, (further measurements uncertain with reduced beam time allocation)
- High luminosity AuAu collisions
 - -Likely physics measurements:
 - J/Psi v2
 - Try to separate Upsilon 1S and 3S states
 - high mass dilepton
 - Possibly try low pT J/Psi
 - Effectively use HLT to select events

^{*} Request a CA-D test to determine the lowest possible collision energy at RHIC