

# Run 20 RHIC Machine/Experiments Meeting

*July 21, 2020*

## Agenda:

- General discussion of Run 20 status and progress - W. Christie
- RHIC Status - C. Liu
- STAR Status - JH Lee
- All Other Business (AOB)

### **BLUEJEANS CONNECTION INFO**

Meeting URL

[https://bluejeans.com/806756566?src=join\\_info](https://bluejeans.com/806756566?src=join_info)

Meeting ID: **806 756 566**

Want to dial in from a phone?

Dial one of the following numbers:

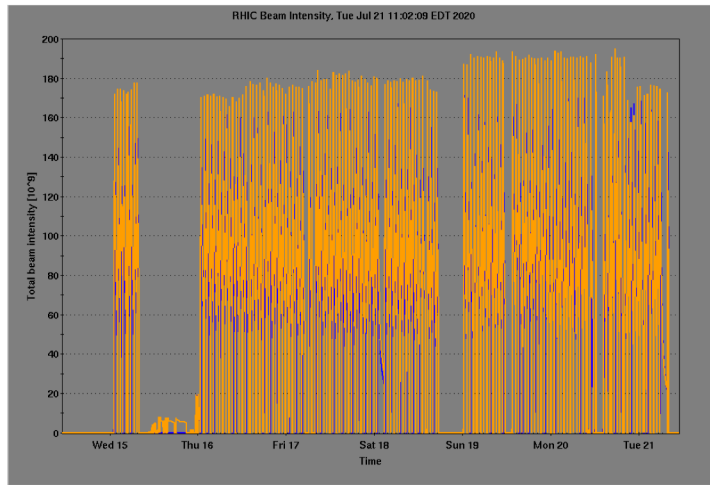
+1.408.419.1715 (United States(San Jose))

+1.408.915.6290 (United States(San Jose))

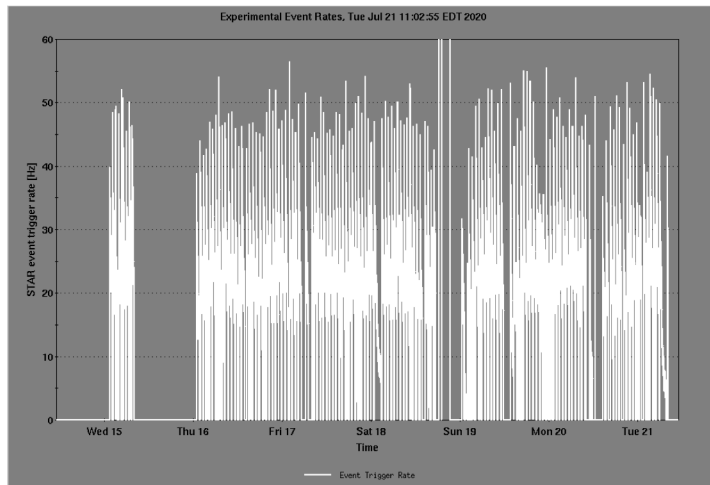
(see all numbers - <https://www.bluejeans.com/premium-numbers>)

Enter the meeting ID and passcode followed by #

# Some Performance Plots for the past week's Operations

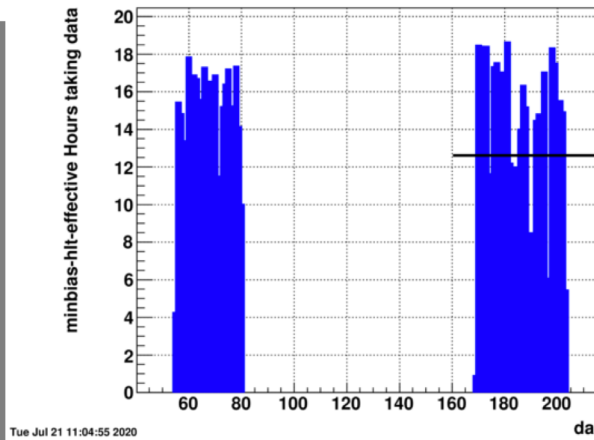


RHIC Store Intensities



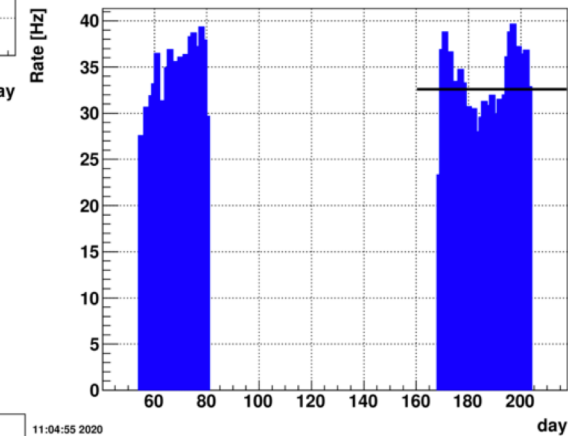
STAR "Good" Event rates

hours\_perday\_mb\_hlt-effective.txt



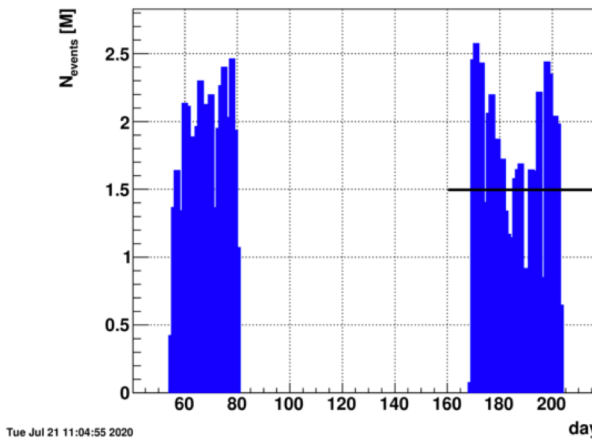
STAR DAQ hrs/day

nbias-hlt-effective Average Rate [Hz]



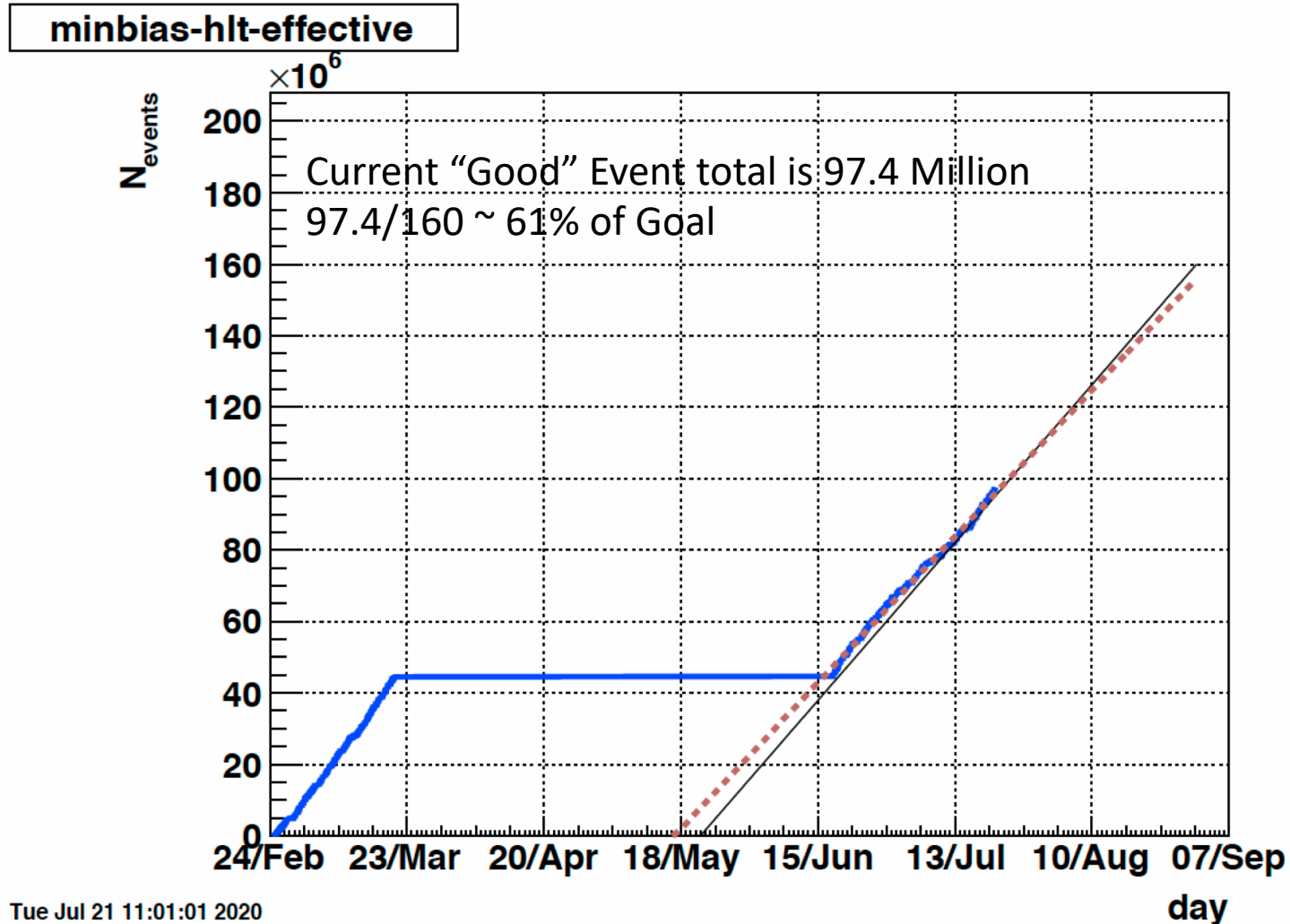
Store averaged "good" evt rates

minbias-hlt-effective  $N_{events}$



"Good" Evts/day

# Current STAR Projections



Tue Jul 21 11:01:01 2020

Many things, in particular weather related, can occur over the next few months which could impact the progress of the run. At this point it appears likely that the run will end sometime in mid September. Please recall the  $\sim 7.5$  days of CeC running as well as 7.7 GeV commissioning time included in the run program.

# A Long range Forecast for coming weeks

## July

19 ☀️ 91° 72°	20 ☀️ 92° 75°	21 ☀️☁️ 90° 73°	22 ☁️☀️ 87° 75°	23 ☁️☀️ 88° 73°	24 ☁️☀️ 84° 70°	25 ☁️☀️ 83° 70°
26 ☁️☀️ 89° 75°	27 ☁️☀️ 91° 76°	28 ☁️☀️ 88° 73°	29 ☁️☀️ 86° 71°	30 ☁️☀️ 84° 70°	31 ☁️☀️ 84° 70°	1 ☁️☔️ 83° 70°

## August

SUN 26 ☁️☀️ 89° 75°	MON 27 ☁️☀️ 91° 76°	TUE 28 ☁️☀️ 88° 73°	WED 29 ☁️☀️ 86° 71°	THU 30 ☁️☀️ 84° 70°	FRI 31 ☁️☀️ 84° 70°	SAT 1 ☁️☔️ 83° 70°
2 ☁️☀️ 84° 71°	3 ☁️☔️ 82° 73°	4 ☁️☀️ 85° 72°	5 Avg 83° 65°	6 Avg 83° 65°	7 Avg 83° 65°	8 Avg 83° 65°

In general the weather ahead of us looks a lot like the weather we've already experienced. We may have already seen the worst we'll experience in terms of Temperature and humidity

## A meeting to look at the longer range RHIC Schedule

There is a meeting, now scheduled for a week from this Wednesday (July 22<sup>nd</sup>) to gather input from the various Facilities and Projects impacted by the RHIC schedule to discuss the period between now through the winter of 2022. Brief presentations will be expected addressing the following efforts:

C-AD

- General
- LEReC
- CeC

STAR

sPHENIX

NSRL

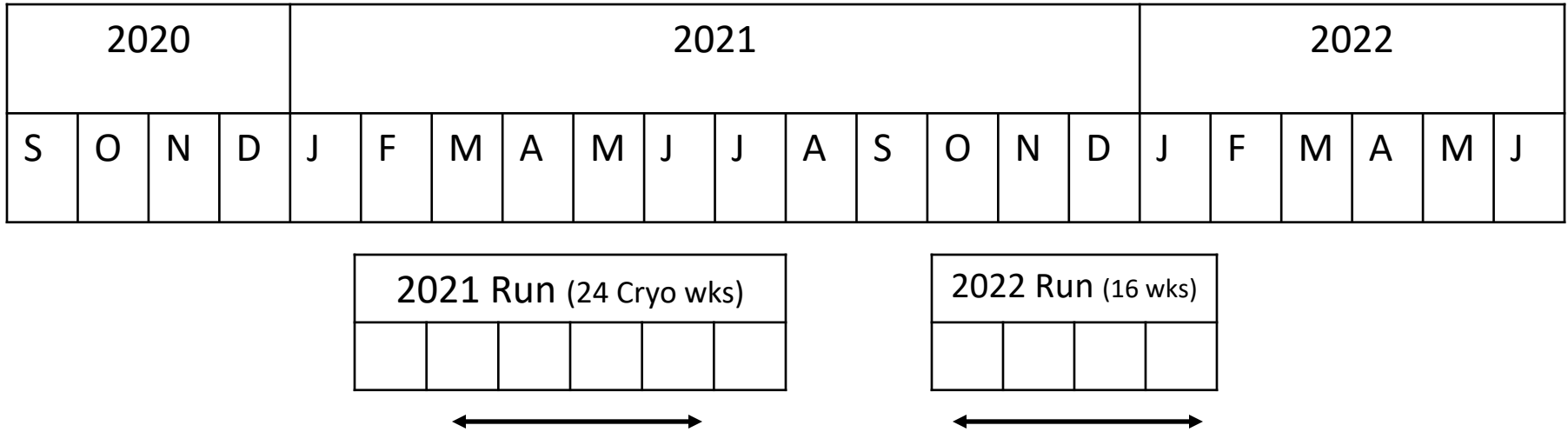
BLIP

ATF

The idea is to understand the work that these impacted parties have to accomplish between now through the winter of 2022 (sPHENIX Magnet mapping). Needs & time estimates during the upcoming shutdown between the ongoing Run and the FY 2021 run, the shutdown between the FY 2021 and 2022 runs, and the period after beam operations for the 2022 run to get to the sPHENIX magnet mapping.

# A Preface to tomorrow's Schedule meeting

## View of the next 20 months



### Please note well:

The graphic above is not meant to imply or lobby for this particular scenario. It is to graphically demonstrate that, if one has a constraint of two fixed run lengths, that the length of the two shutdown periods directly impact the complete schedule. The 16 wks shown for Run 2022 includes the cooldown, commissioning, and Physics running.

“There is no free lunch”

AOB

# Calendars as a possible aid for discussion

2020

September							October						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5				1	2	3	
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30				25	26	27	28	29	30	31

November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30						27	28	29	30	31		

## Calendar for Year 2021 (United States)

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2		1	2	3	4	5	6		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28							28	29	30	31			
6:○	13:●	20:○	28:○				4:○	11:●	19:○	27:○				5:○	13:●	21:○	28:○			

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3						1			1	2	3	4	5	
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
4:○	11:●	20:○	26:○				3:○	11:●	19:○	26:○				2:○	10:●	17:○	24:○			

July							August							September									
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa			
				1	2	3						1	2	3	4					1	2	3	4
4	5	6	7	8	9	10	1	2	3	4	5	6	7	5	6	7	8	9	10	11			
11	12	13	14	15	16	17	8	9	10	11	12	13	14	12	13	14	15	16	17	18			
18	19	20	21	22	23	24	15	16	17	18	19	20	21	19	20	21	22	23	24	25			
25	26	27	28	29	30	31	22	23	24	25	26	27	28	26	27	28	29	30					
1:○	9:●	17:○	23:○	31:○			8:●	15:○	22:○	30:○				6:●	13:○	20:○	28:○						

October							November							December							
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
				1	2			1	2	3	4	5	6					1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11	
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18	
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25	
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31		
6:●	12:○	20:○	28:○				4:●	11:○	19:○	27:○				4:●	10:○	18:○	26:○				

2022

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
						1			1	2	3	4	5			1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28						27	28	29	30	31		
30	31																			
2:●	9:○	17:○	25:○				1:●	8:○	16:○	23:○				2:●	10:○	18:○	25:○			

April							May							June								
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa		
					1	2			1	2	3	4	5	6	7			1	2	3	4	
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11		
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18		
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25		
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30				
1:●	9:○	16:○	23:○	30:●			8:○	16:○	22:○	30:●				7:○	14:○	20:○	28:●					