

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
- CeC Status - V. Litvinenko
- All Other Business (AOB)

BLUEJEANS CONNECTION INFO

Meeting URL

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:

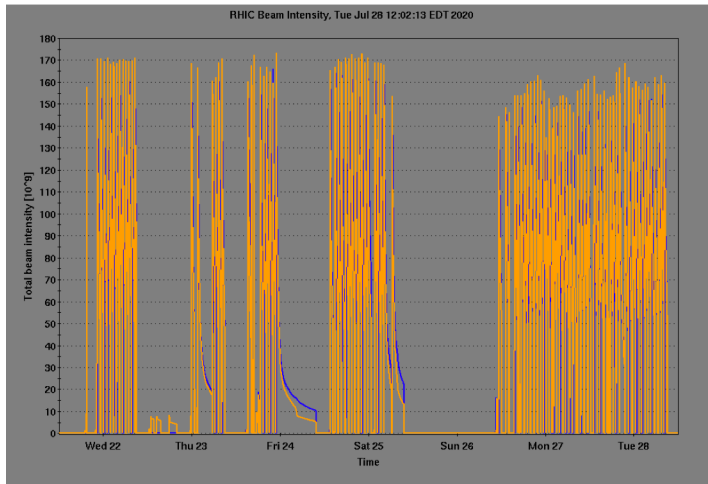
+1.408.419.1715 (United States(San Jose))

+1.408.915.6290 (United States(San Jose))

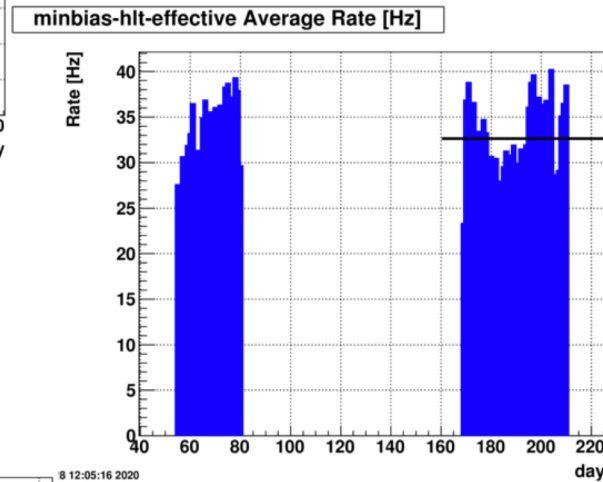
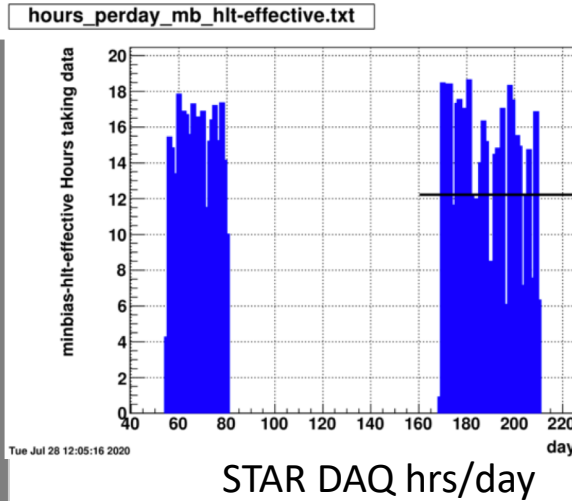
(see all numbers - <https://www.bluejeans.com/premium-numbers>)

Enter the meeting ID and passcode followed by #

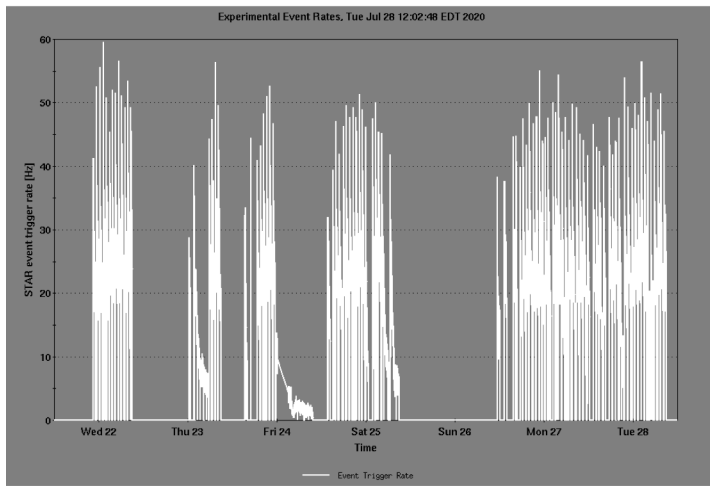
Some Performance Plots for the past week's Operations



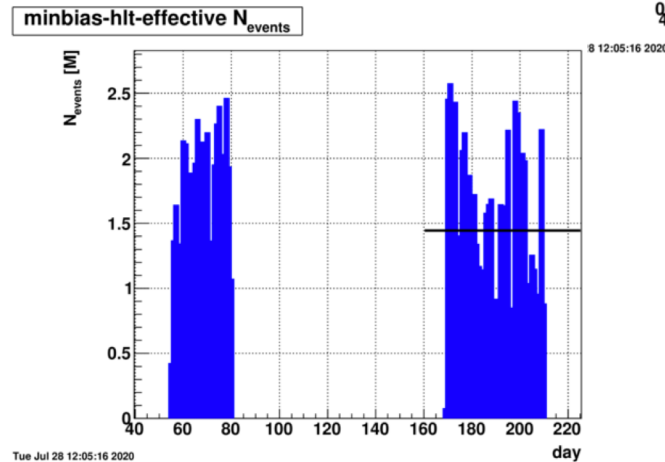
RHIC Store Intensities



Store averaged "good" evt rates



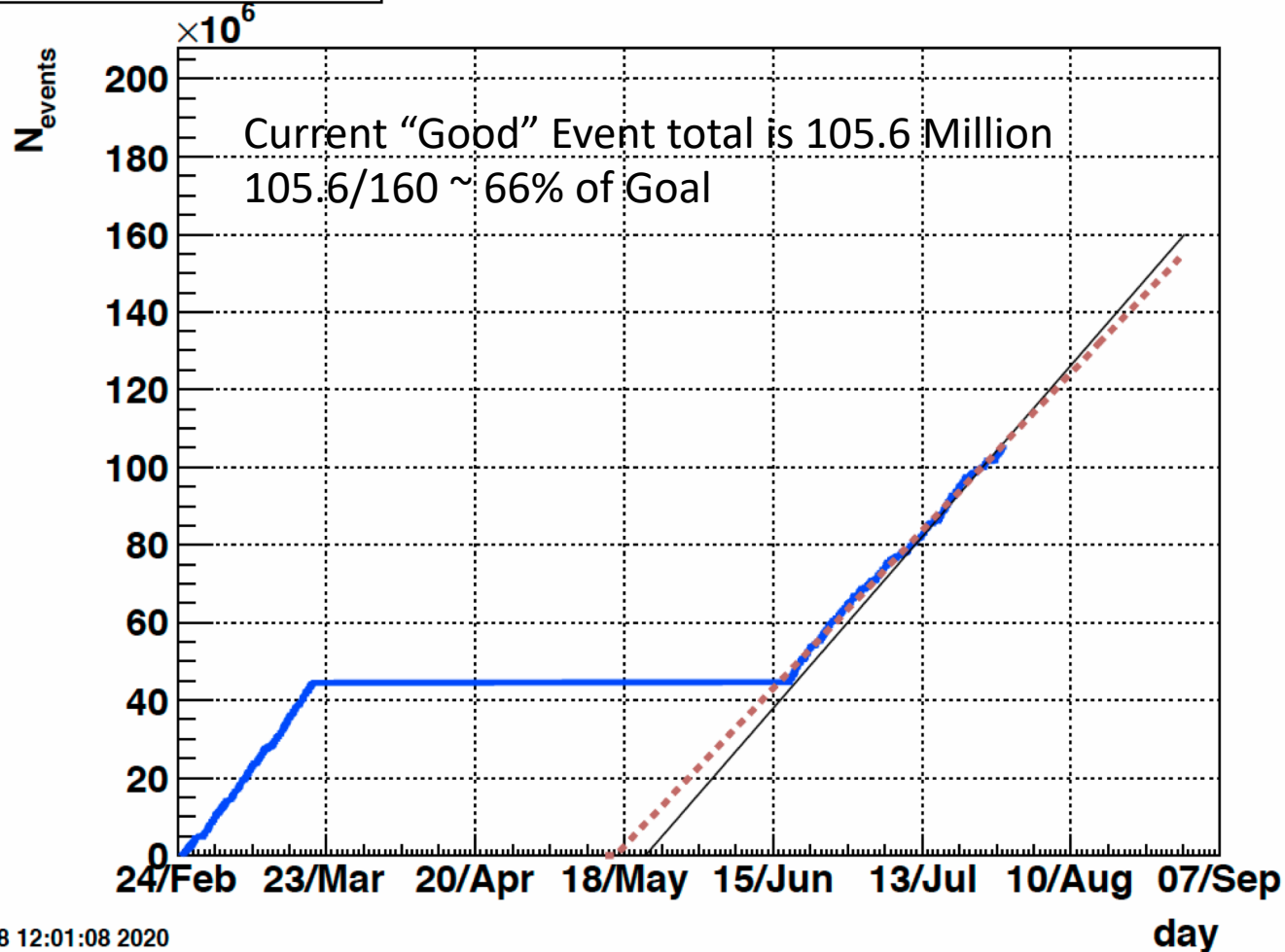
STAR "Good" Event rates



"Good" Evts/day

Current STAR Projections

minbias-hlt-effective










Tue Jul 28 12:01:08 2020


















Many things, in particular weather related, can occur over the next month or so 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 ~ 6 days of CeC running as well as 7.7 GeV commissioning time is included in the run program.

A Long range Forecast for coming weeks

July

<p>26</p>  <p>Mostly Cloudy</p> <p>Actual: 89° 74°</p> <p>0 in</p>	<p>27</p>  <p>Mostly Cloudy</p> <p>Actual: 94° 71°</p> <p>0 in</p>	<p>28</p>  <p>Scattered Thunderstorm</p> <p>Forecast: 93° 72°</p> <p>0.21 in</p>	<p>29</p>  <p>Sunny</p> <p>Forecast: 87° 73°</p> <p>0 in</p>	<p>30</p>  <p>Isolated Thunderstorm</p> <p>Forecast: 88° 72°</p> <p>0.02 in</p>	<p>31</p>  <p>Partly Cloudy</p> <p>Forecast: 85° 71°</p> <p>0 in</p>	<p>1</p>  <p>Sunny</p> <p>Forecast: 85° 72°</p> <p>0 in</p>
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August

<p>26</p>  <p>Mostly Cloudy</p> <p>Actual: 89° 74°</p> <p>0 in</p>	<p>27</p>  <p>Mostly Cloudy</p> <p>Actual: 94° 71°</p> <p>0 in</p>	<p>28</p>  <p>Scattered Thunderstorm</p> <p>Forecast: 93° 72°</p> <p>0.21 in</p>	<p>29</p>  <p>Sunny</p> <p>Forecast: 87° 73°</p> <p>0 in</p>	<p>30</p>  <p>Isolated Thunderstorm</p> <p>Forecast: 88° 72°</p> <p>0.02 in</p>	<p>31</p>  <p>Partly Cloudy</p> <p>Forecast: 85° 71°</p> <p>0 in</p>	<p>1</p>  <p>Sunny</p> <p>Forecast: 85° 72°</p> <p>0 in</p>
<p>2</p>  <p>Partly Cloudy</p> <p>Forecast: 84° 74°</p> <p>0.2 in</p>	<p>3</p>  <p>Scattered Thunderstorm</p> <p>Forecast: 85° 71°</p> <p>0.43 in</p>	<p>4</p>  <p>Scattered Thunderstorm</p> <p>Forecast: 80° 70°</p> <p>0.42 in</p>	<p>5</p>  <p>Scattered Thunderstorm</p> <p>Forecast: 81° 69°</p> <p>0.3 in</p>	<p>6</p>  <p>Mostly Sunny</p> <p>Forecast: 82° 69°</p> <p>0.02 in</p>	<p>7</p>  <p>Mostly Sunny</p> <p>Forecast: 83° 71°</p> <p>0 in</p>	<p>8</p>  <p>PM Thunderstorms</p> <p>Forecast: 84° 71°</p> <p>0.04 in</p>
<p>9</p>  <p>Mostly Sunny</p> <p>Forecast: 85° 71°</p> <p>0.03 in</p>	<p>10</p>  <p>PM Thunderstorms</p> <p>Forecast: 84° 72°</p> <p>0.1 in</p>	<p>11</p>  <p>PM Showers</p> <p>Forecast: 84° 72°</p> <p>0.19 in</p>	<p>12</p> <p>Average: 81° 66°</p> <p>0 in</p>	<p>13</p> <p>Average: 81° 66°</p> <p>0 in</p>	<p>14</p> <p>Average: 81° 66°</p> <p>0 in</p>	<p>15</p> <p>Average: 81° 66°</p> <p>0 in</p>

In general the weather ahead of us looks a bit cooler than 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 22nd) 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

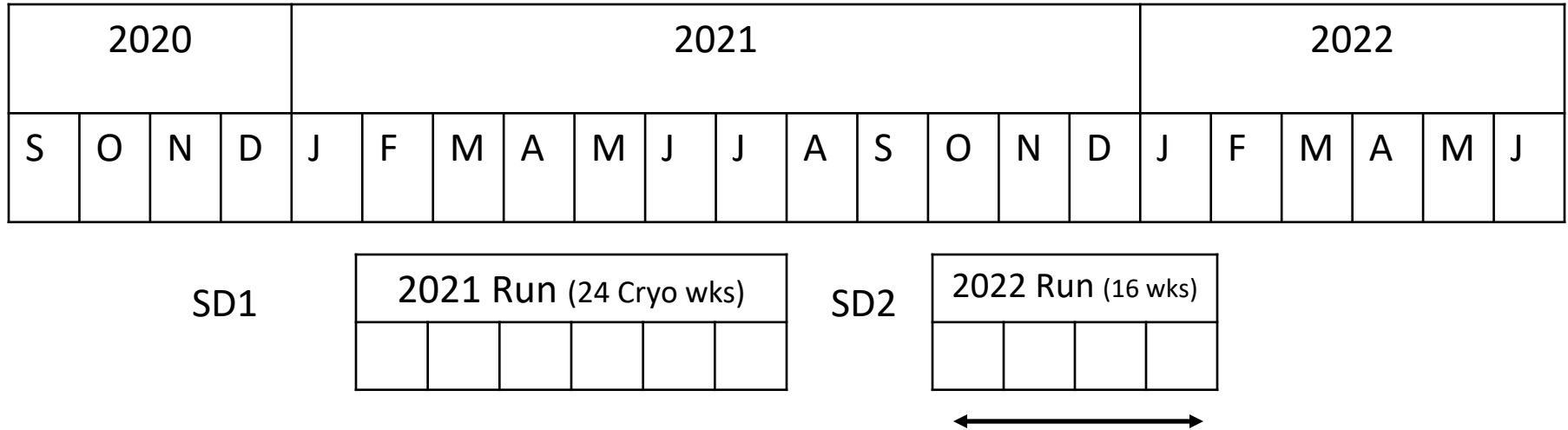
BLIP

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 brief summary from the Schedule meeting

View of the next 22 months



A few key outcomes from the Scheduling meeting that was held on July 22nd:

- The consensus from the meeting was that the upcoming shutdown (aka SD1) should have a duration of 4 months, extending from Oct. 1st to Feb. 1st
- Run 2020 should end as soon as all 2020 program goals are met. An end earlier than Oct. 1st would add time to the SD1 duration.
- The effort that will likely determine the duration of SD2 is the Cryo Controls upgrade.
- LEReC needs an estimated one week, after cold, to commission the 1.4 GHz cavity.
- CeC plans to request 2 weeks of dedicated time in the 2021 run.
- The upcoming PAC mtg in early September may cast some light on the length of the 2021 run.
- There is ongoing discussion of the time needed for the SD2 Cryo effort.

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	5	6	7			1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					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:○			