



Scheduling Physicist View

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RUN-11



Scheduling

- Bring everybody on the same page:
 - Requires attending many meeting (Monday and Tuesday)
 - Collect requests
 - Try to reach agreement
- Develop schedule of the week:
 - Monday Scheduling Meeting is the main tool to achieve this (can be overwritten by Tuesday meetings)
 - As pp Run showed, to have a flexibility in schedule is essential
- Time Meeting:
 - Tried to keep it lean and mean, as recommended
 - Presenters did a great job to stay on time



RHIC start-up cooldown

December 1, 2010: BLIP production run started

December 7, 2010: RHIC 45K cool down started

December 14, 2010: work with polarized protons in AGS started

January 3, 2011: RHIC cooldown to 4K started

January 8, 2011: RHIC Blue and Yellow rings are cold

went very well
and on schedule



pp Run-11

- January 8: Set-up with beam in Blue Ring started
- January 10: Blue beam captured in 28MHz RF
- January 15: Yellow beam captured in 28MHz RF
- January 16: P/S work done. Ramp development started
- February 11: Started to deliver stores for physics
- February 24: 9MHz RF is in operation
- March 7: Cryo failure, recovery is underway
- March 12: Both Rings are cold. P/S tests underway
- March 14: Work with beam at injection
- March 15: Ramp development/recovery with beams started
- March 16: Physics stores are back
- March 17: Physics off due to outage for feed 911-17
- March 19: Power is back
- March 20: Physics production is back
- April 18: 500 GeV pp physics run ended

It took 5 weeks to get to physics instead of 3-4 weeks. Major delays due to emittance growth (kickers).

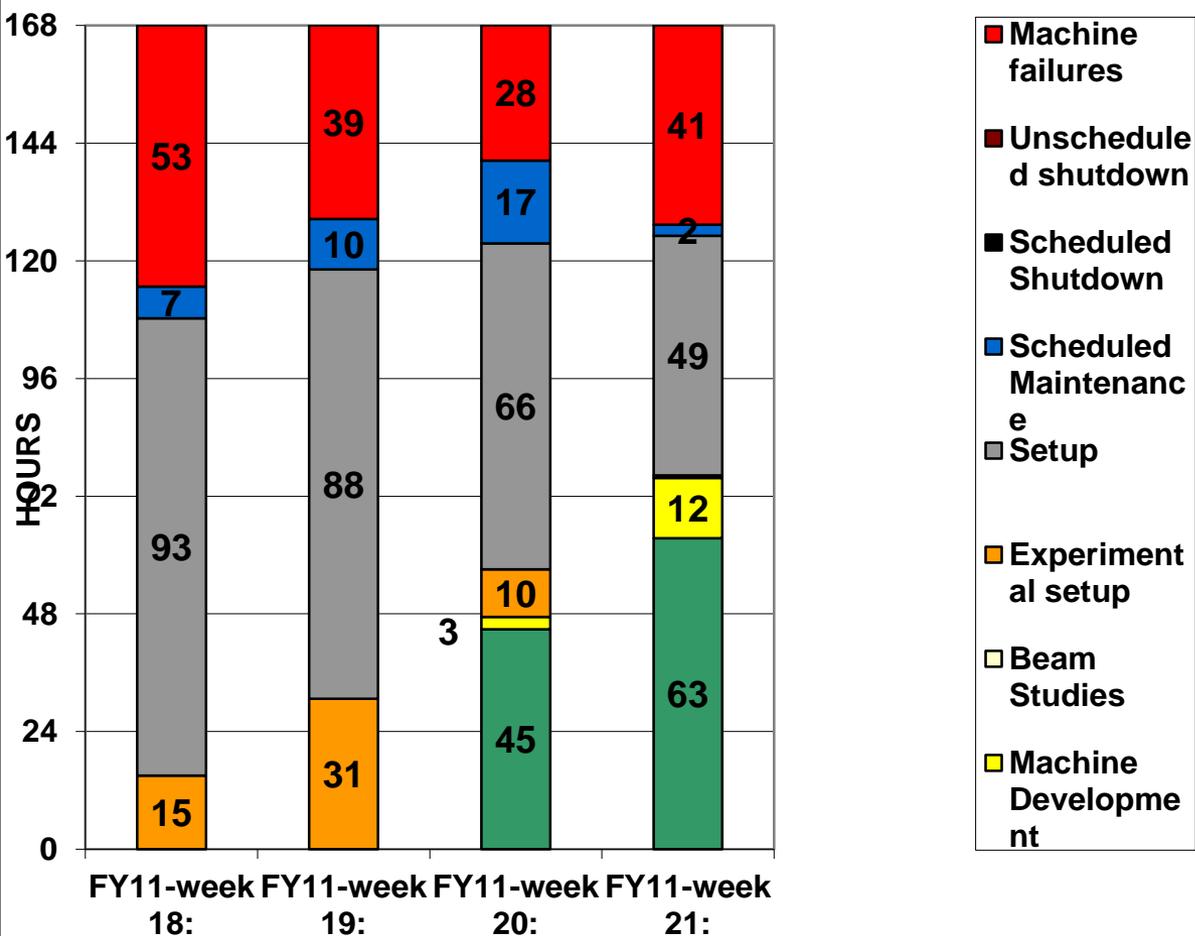
PP Run-11 appeared more like a development/commissioning Run:
Scheduling was constantly floating, driven by:

- 1) Failures
- 2) Requests for Access (dominated by PHENIX and jet)
- 3) weather
- 4) Budget uncertainty



Statistics from P. Ingrassia

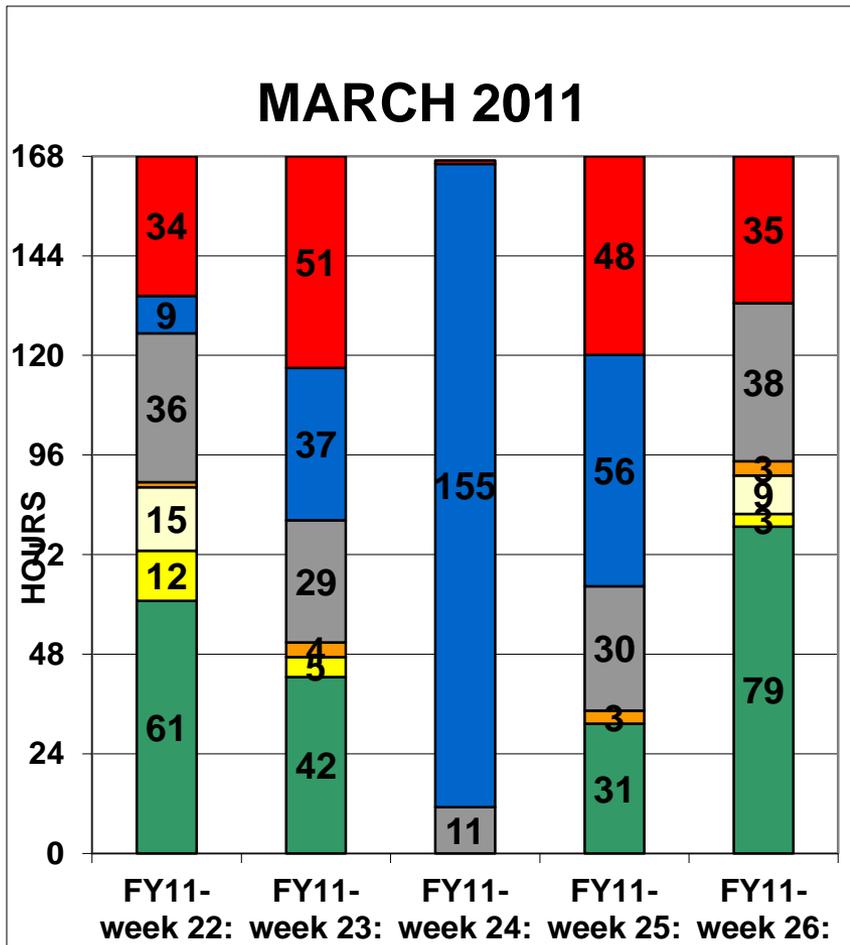
C-AD ACTIVITY FEBRUARY 2011



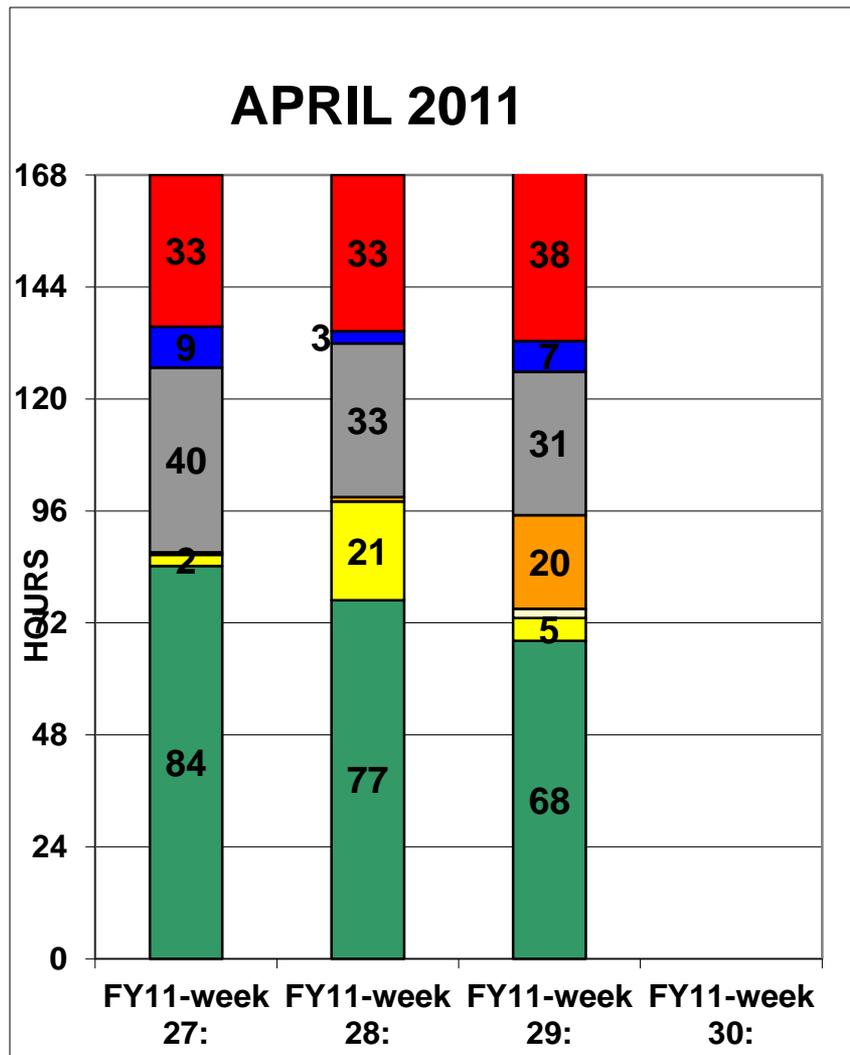
- Physics start was delayed by several failures (AGS water leak, etc.) but mostly due to emittance growth (kickers) which required extra Setup time.

- First weeks of physics running were upset by:
 - cryo problems
 - Access control failure
 - Required access for PHENIX (VTX)
 - Required access for PHENIX (shielding)

- Were forced to have adjustable Maintenance days.



- Forced into "long Maintenance" driven by two major failures:
 - Cryo
 - power outage



- Machine is running rather good when no changes/attempt for improvement are done.
- With Setup time minimized to about 30h/week physics could be >90h/week



Au-Au Run-11

- April 19: set-up for 19.6GeV Au-Au run started
- April 23: 19.6GeV Au-Au physics started
- May 2: 19.6GeV Au-Au physics run ended
- May 2: set-up for 200 GeV Au-Au run started
- May 6: 200 GeV Au-Au physics stores started
- June 20: 200 GeV Au-Au physics run finished
- June 21: 27 GeV Au-Au physics run started
- June 28: 27 GeV Au-Au physics run finished

- Attempt to have less meetings worked very well.
- Minimum of changes/improvements lead to very efficient physics running

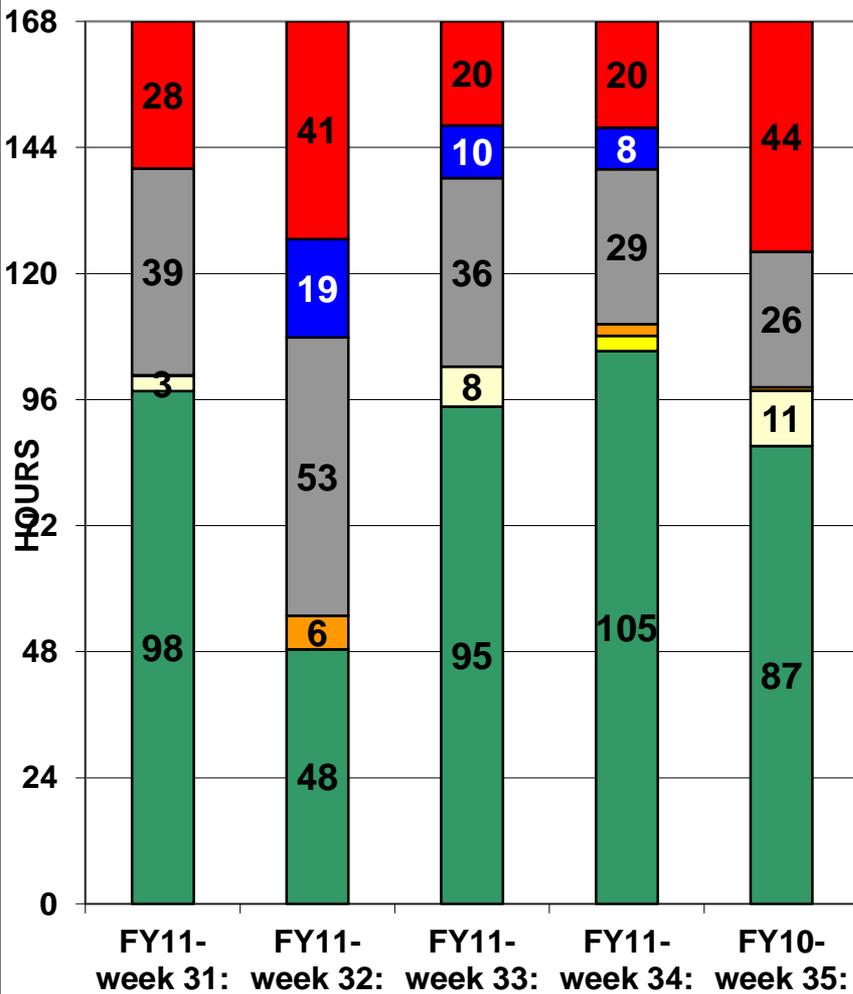
Run went very well.
(some "glitches": RF/Stochastic cooling)

Scheduling was easy.

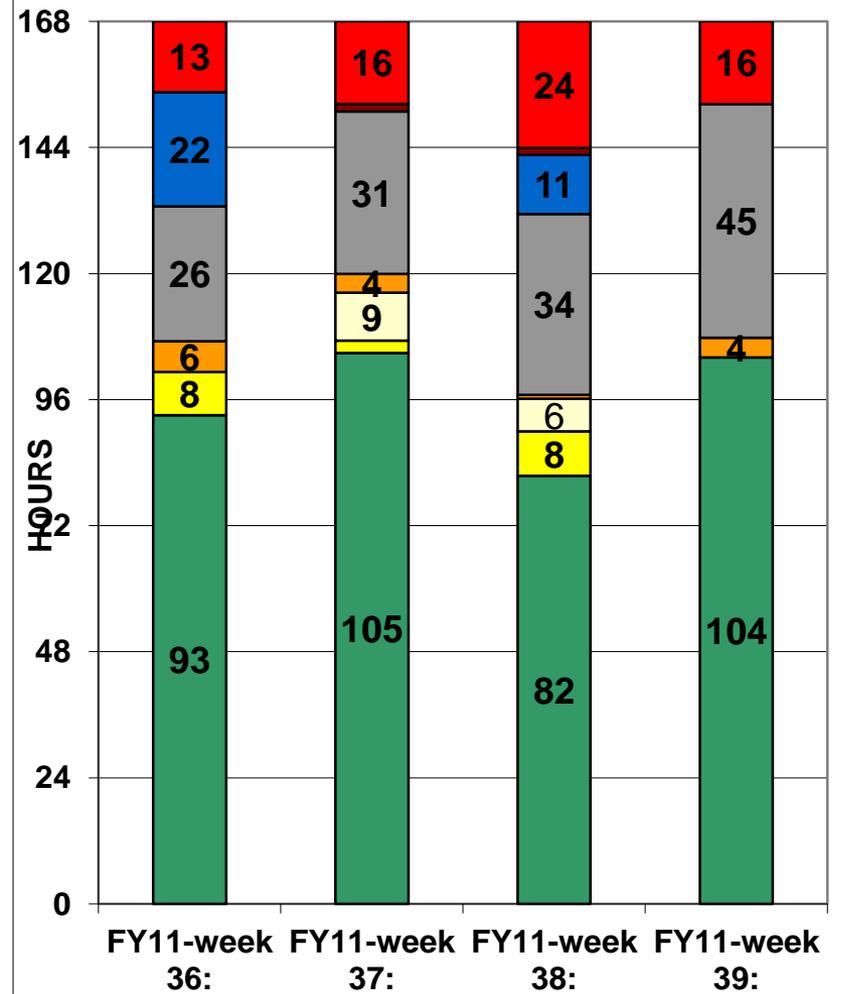


statistics from P. Ingrassia

MAY 2011



JUNE 2011





Mis. Notes

- **End of the Run Party:**

- Sponsored by Experimentalists (PHENIX, STAR, AnDY) - many Thanks!
- Got feedback that C-AD management should try to allocate some BSA funds for the party
- Many thanks to those from C-AD who contributed to the party!
- **Paul Sparrow did very good organization!**

- **Night calls:**

Calling scheduling physicist in the middle of the night does not really help anyone and, perhaps, could be avoided.

- **Scheduling physicist job:**

Appears to be a stretch with most scheduling done by P. Sampson together with MCR and Run coordinator.

Although it does give unique opportunity to see how various organizations interact and work. It was an interesting experience.



Conclusions

- A great overall job was done by everybody - Thank you!
- No outstanding problems in communication

Thank you