

Run 10 Low Energy Discussion

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Considerations

- switching defocusing sextupole power supply polarities (necessary below $\sqrt{s_{NN}}$ =about 10 GeV) takes about 4 to 6 hours
- swapping Q7s out from the IBS suppression lattice is longer, probably about 8h, maybe even a little longer (also would only do for <10 GeV)

| ● $\sqrt{s_{NN}}$ | Q7 swapped | SD swapped |
|-------------------|------------|------------|
| ● 200 | yes | no |
| ● 62.4 | yes | no |
| ● 39 | yes | no |
| ● 11.5 | no | no (*) |
| ● 7.7 | no | yes |
| ● 5 | no | yes |

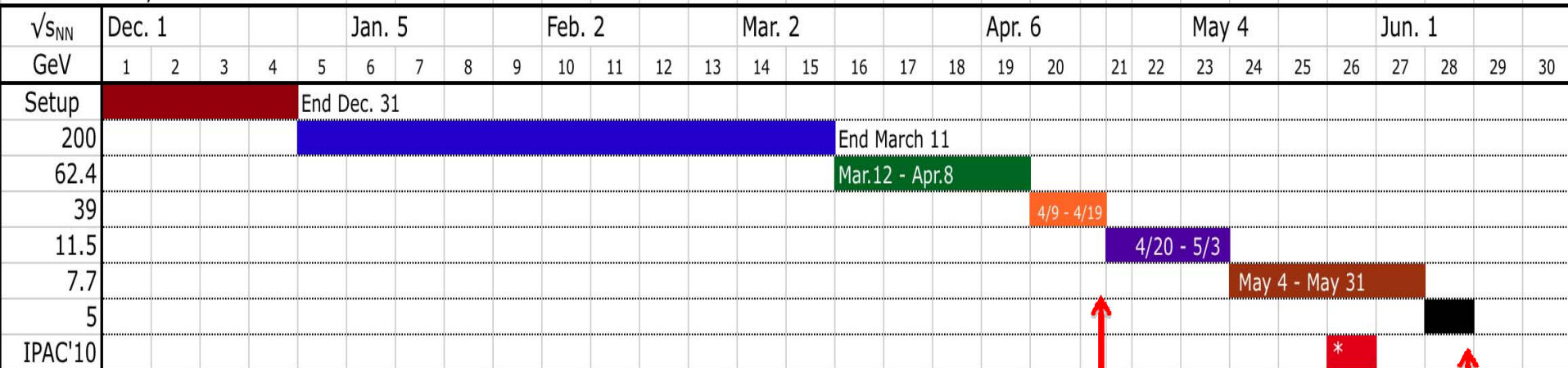
- * it would help a lot if we could combine the swaps – Todd is going to investigate whether $\sqrt{s_{NN}}$ =11.5 GeV can be run with DS flipped.

Configuration Plans

- 64.2 GeV & 39 GeV – same lattice on ramp as current 200 GeV configuration (separate gamma-tr, IBS suppression lattice, etc.)
- Scale beta-star with $1/\gamma$
- Setup with full feedback – tune/coupling and orbit.
- No rebucketing – just 28MHz cavities at store.

Plan A: PHENIX doesn't run for 11.5 GeV

Assumes 27 cryoweek schedule

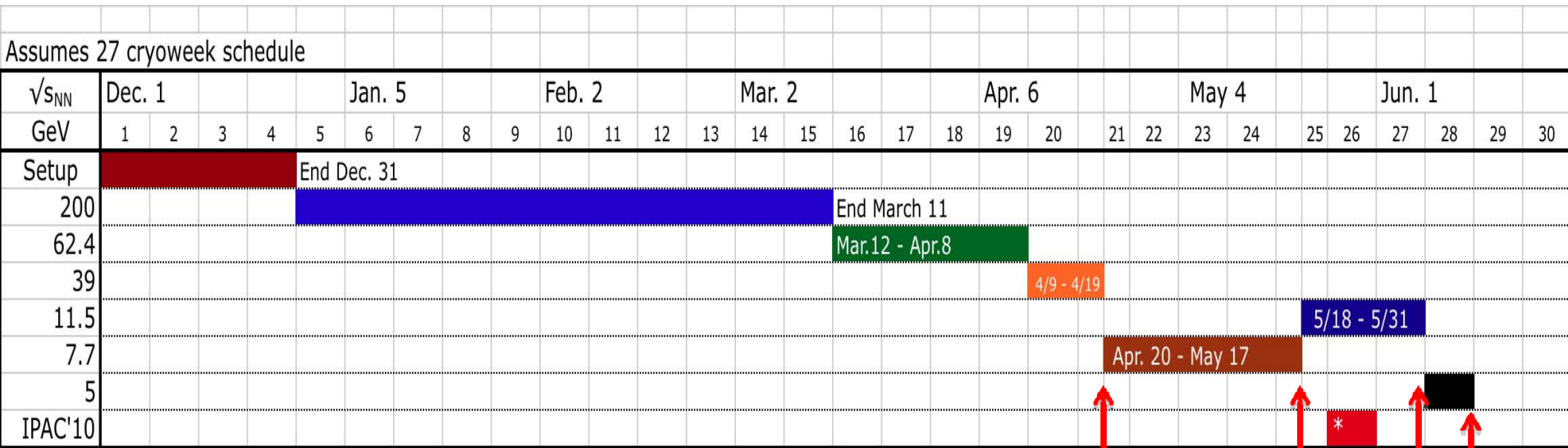


* Todd S. and Kevin B. gone from May 21 to May 30

From Steve Vignor Run10 Plans



Plan B: PHENIX ends early (doesn't run for 11.5 GeV)



* Todd S. and Kevin B. gone from May 21 to May 30

From Steve Vignor Run10 Plans

| | |
|------|-----|
| 200 | 10 |
| 62.4 | 4 |
| 39 | 1.5 |
| 11.5 | 2 |
| 7.7 | 4 |
| 5 | 0.5 |

Polarity Changes