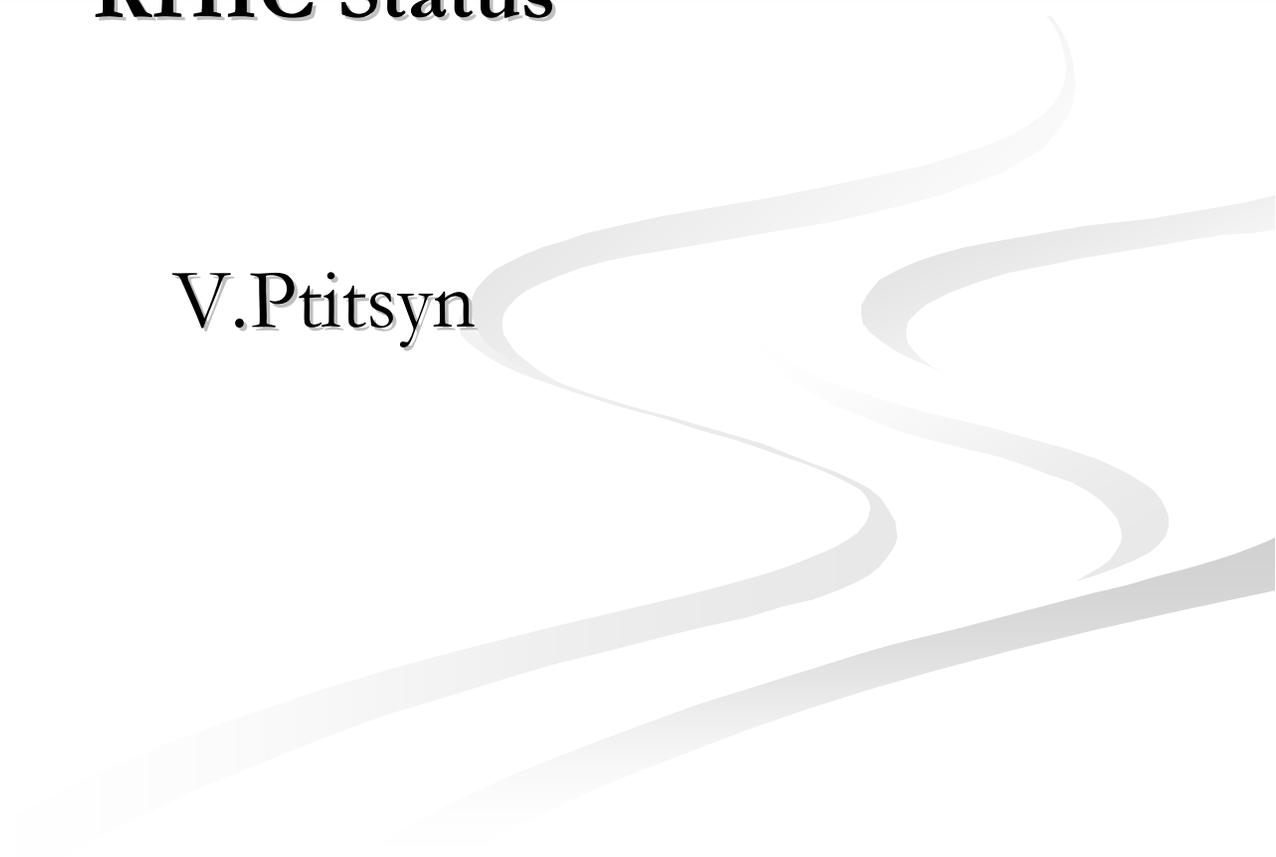
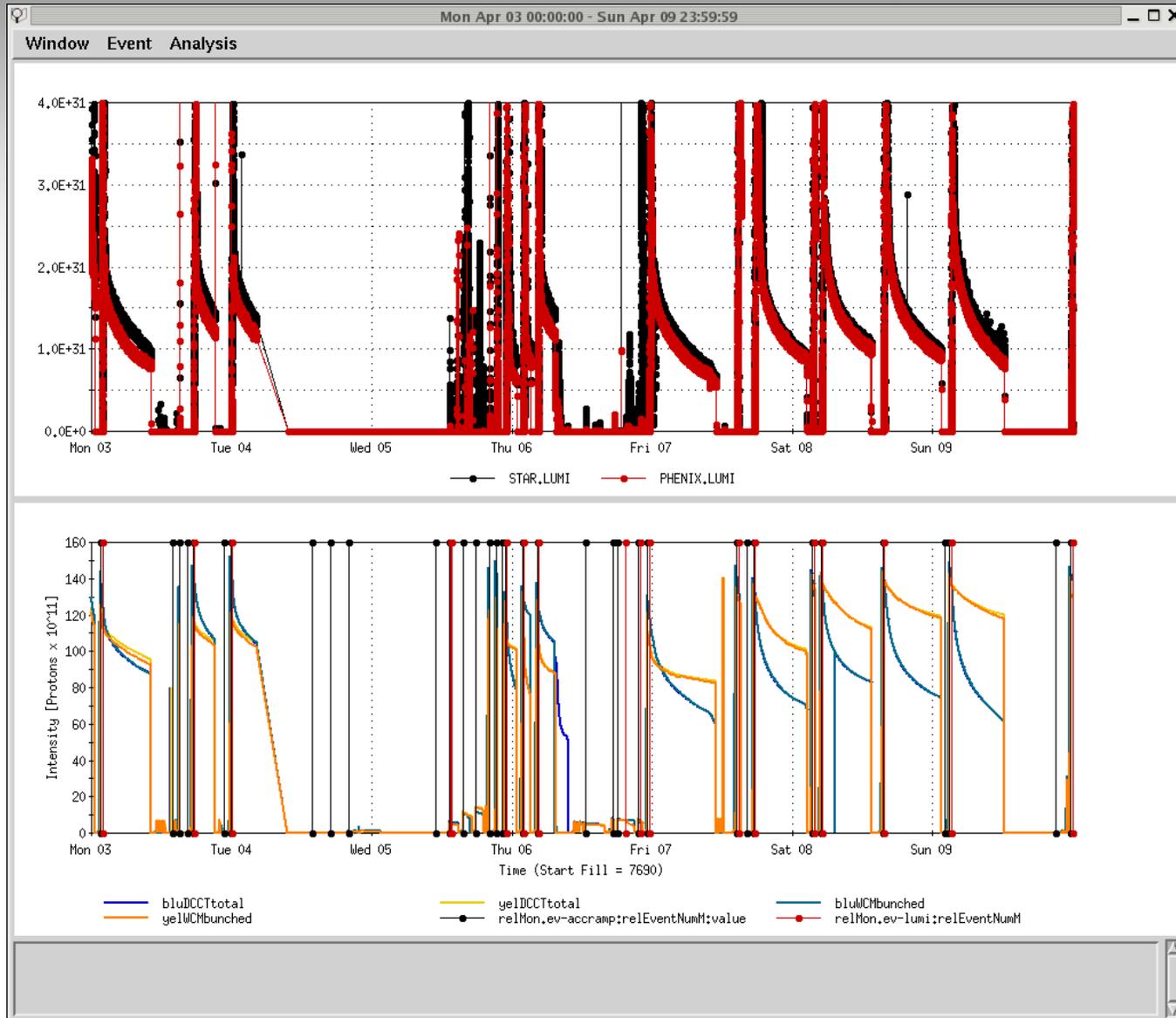


RHIC Status

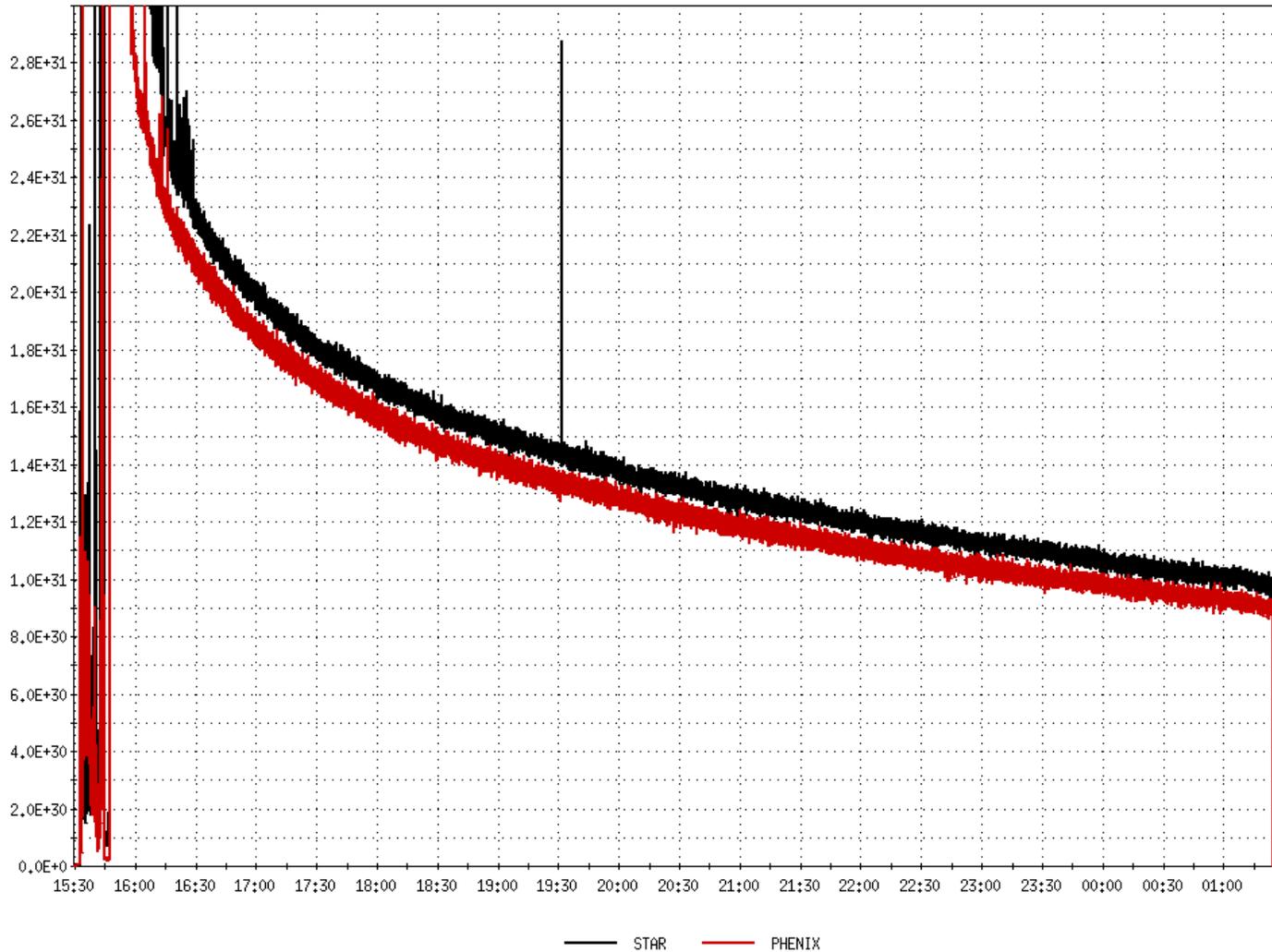
V.Ptitsyn

The background of the slide features several thick, light gray, wavy lines that flow from the bottom left towards the right side of the frame. These lines are layered, creating a sense of depth and movement.

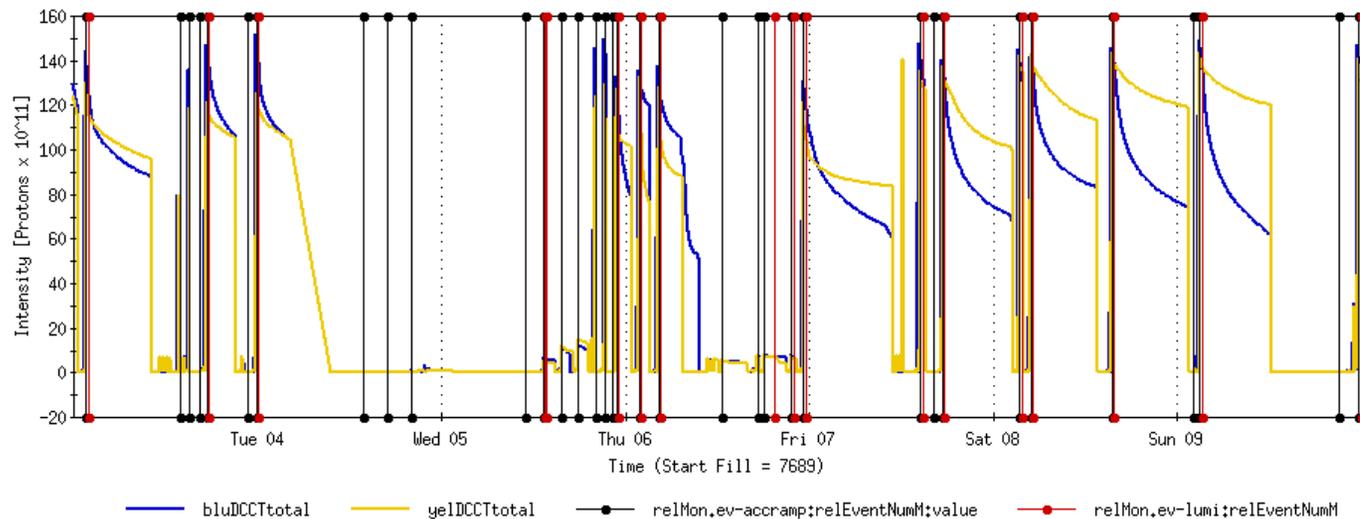
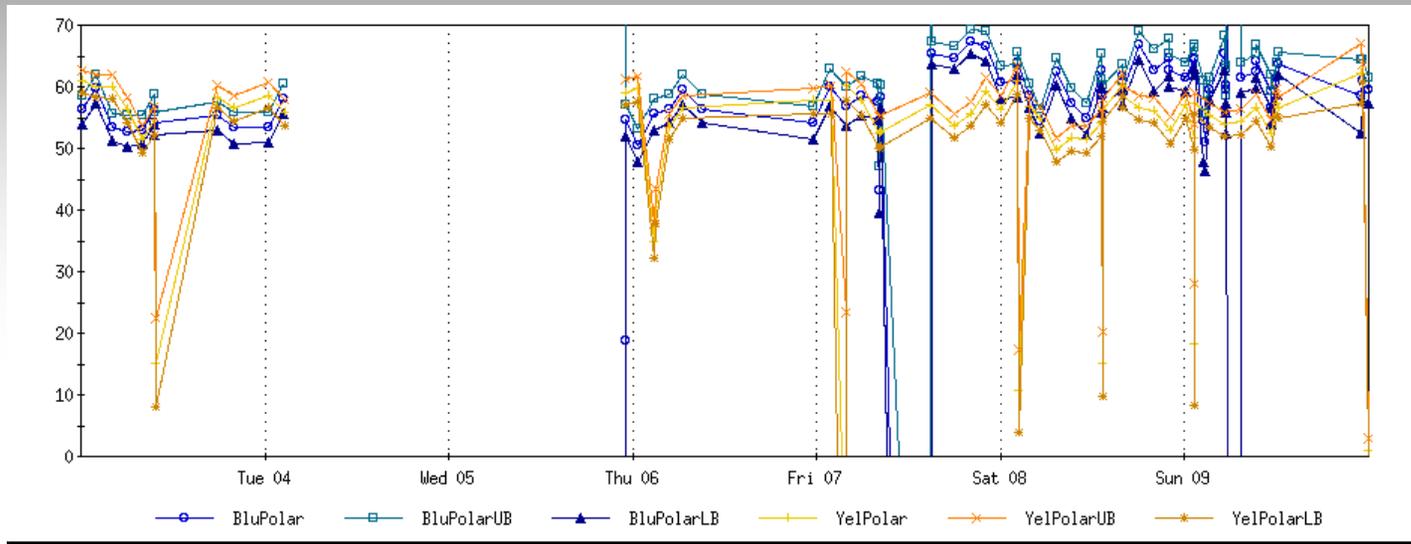
Week 5: Luminosity

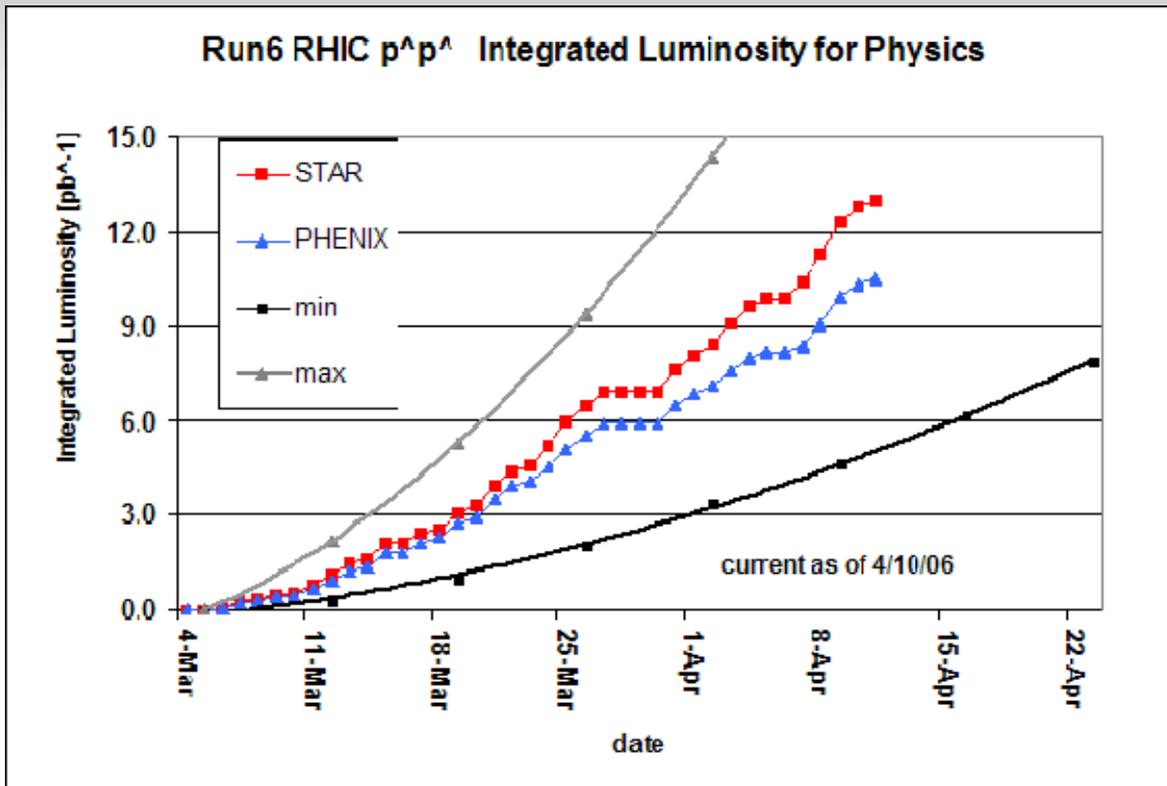


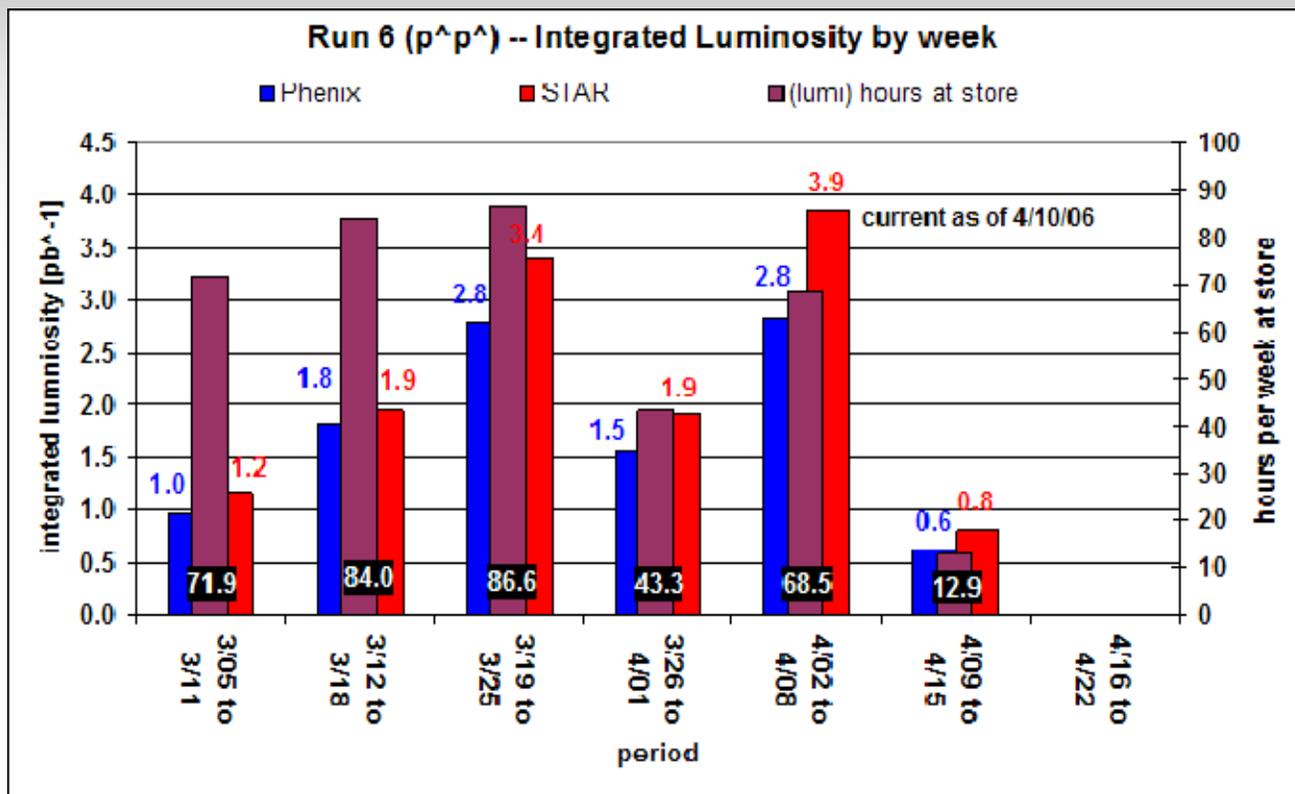
Golden store 7725



Week 5: Polarization







Machine Developments

- Main developments during the week:
 - Rotator reconfiguration: switching off STAR rotators.
 - Improving synchro loop:
 - relative longitudinal phase stays constant on the ramp.
 - Yellow debunching problem eliminated
 - Increased Yellow intensity at the store to the Blue intensity level.
 - Chromaticity corrections on the rotator part of the ramp based on Schottky measurements.

Further tasks

- Improving lifetime at the store, pushing beam-beam limit:
 - 10Hz feedback application
 - Coherent beam-beam
 - Unequal emittances
 - 2/3 resonance overlapping
 - Trying to equalize Blue and Yellow beam-beam conditions by using different intensities and/or different emittances of injected beam
- Emittance blowup on the ramp.
- Improvements in the beginning of the store: different tune/chrom settings with and without collisions.
- Vertex reduction efforts: longitudinal emittance from the injectors, quad pumping, storage cavities.