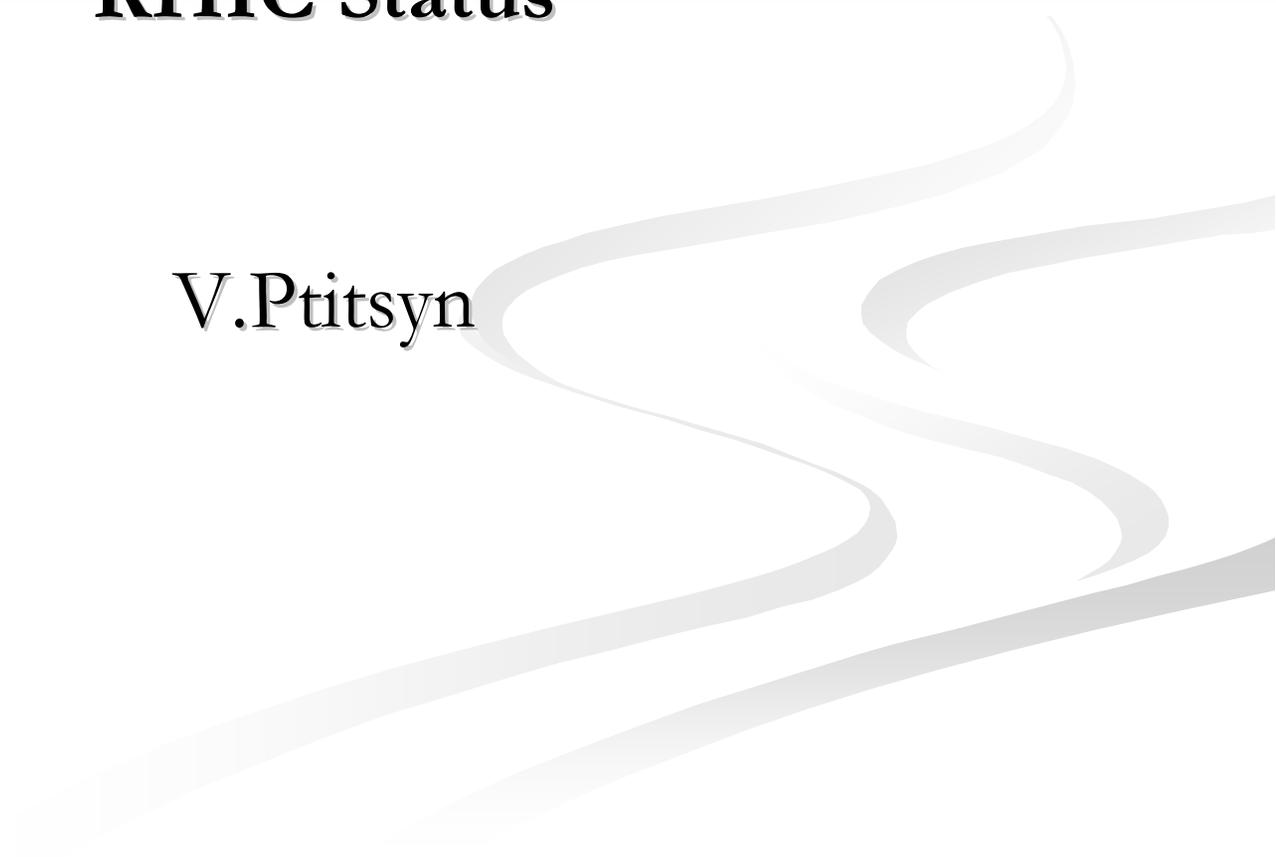


# **RHIC Status**

V.Ptitsyn

The background of the slide features several thick, light gray, wavy lines that flow from the bottom right towards the center, creating a sense of movement and depth.

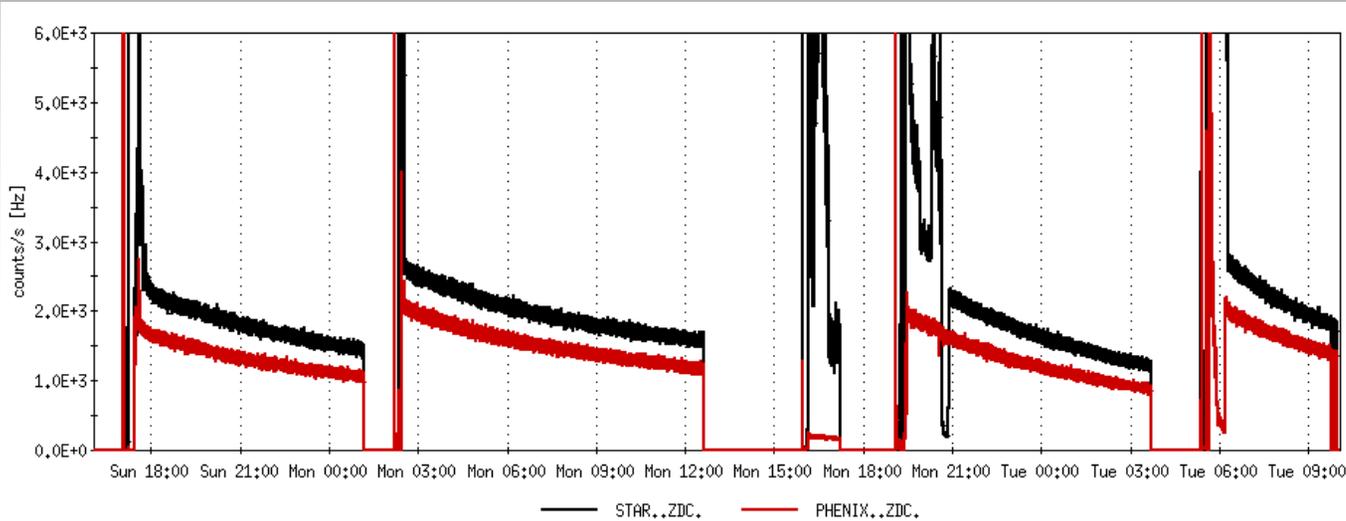
# Polarized Proton Run-6 Machine Set Up

- **Cool-Down Mode : 2 weeks (02/01-02/13)** -> **completed**
- **StartUp Mode: 2 weeks (02/13-02/28)** (*3 shifts per day*)
  - Injection setup (02/13-02/17) -> **completed**
  - Ramp development (02/17-02/23) -> **completed**  
6 bunch ramps with up to  $1e11$  p/bunch. Rotator ramp.
  - Store development (02/23-02/28) -> **completed**  
6-56 bunch ramps; up to  $1.5e11$  p/bunch
- **RampUp Mode: 1 week (03/01-03/07)** (*Owl shift for experiment setup*)  
111 bunch development **completed**
- **Physics Running** -> **started on Mar 5**

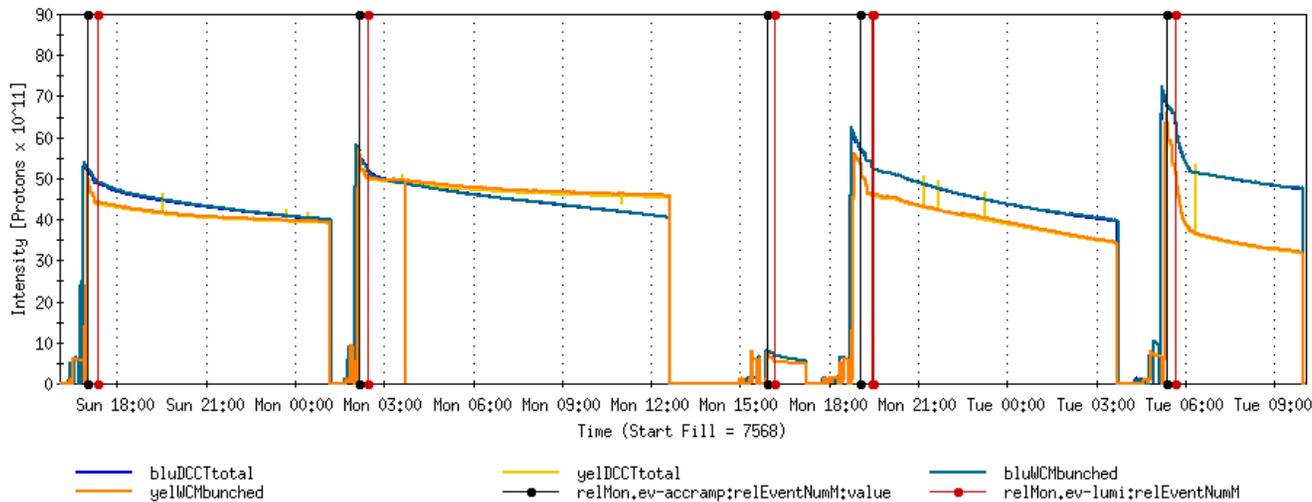
# Present Status of Machine Setup

- Main achievements during the last week:
  - Collimation setup completed. Fast collimation mode ( $\sim$ few minutes). (Angelika)
  - 54 bunch stores for the detector setup overnight continued. (With rotators off)
  - 109 ramp and store tests with  $1-1.3e11$  p/bunch.
  - Polarimeter setup for 109 bunches. (Sandro)
  - Beam polarizaton measurement using polarization profile method (Sandro)
  - Vertical polarization profile measurements at the injection and the store. (Mei)
  - **Start of the Physic Running: from store 7568 (Mar 5, Sunday, Evening).**

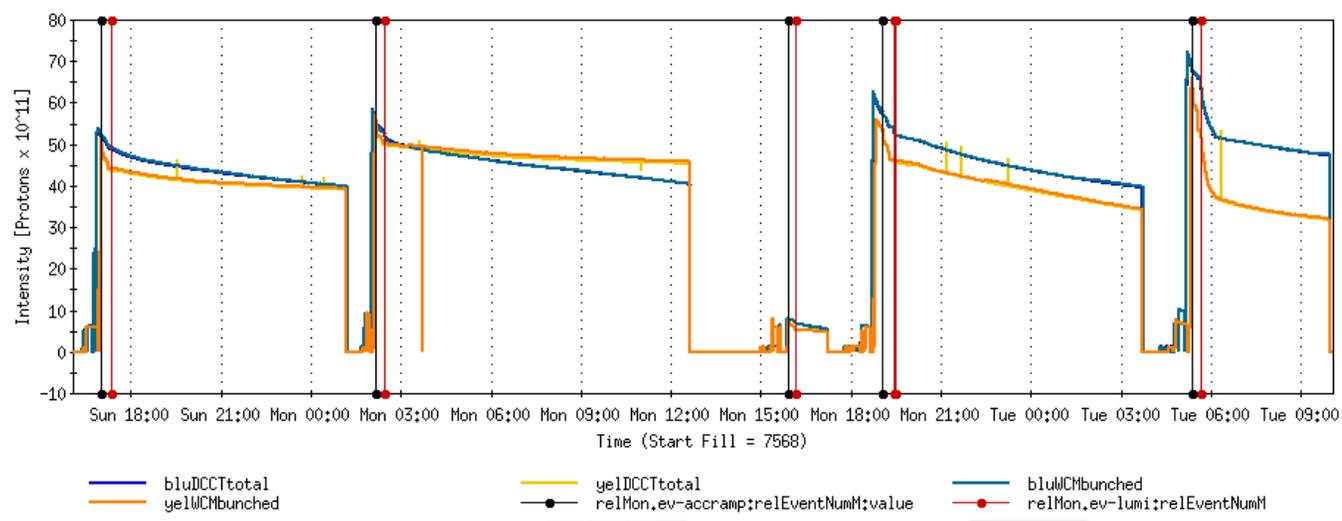
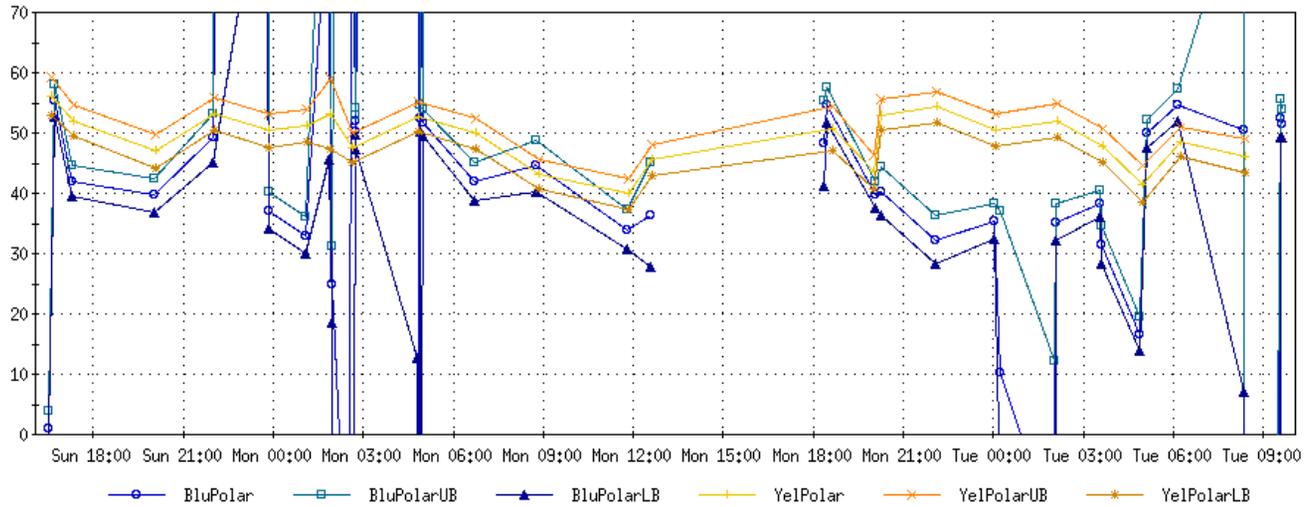
# First Physics Run stores: collision rates



54 bunches  
0.9-1.1e11p/bunch

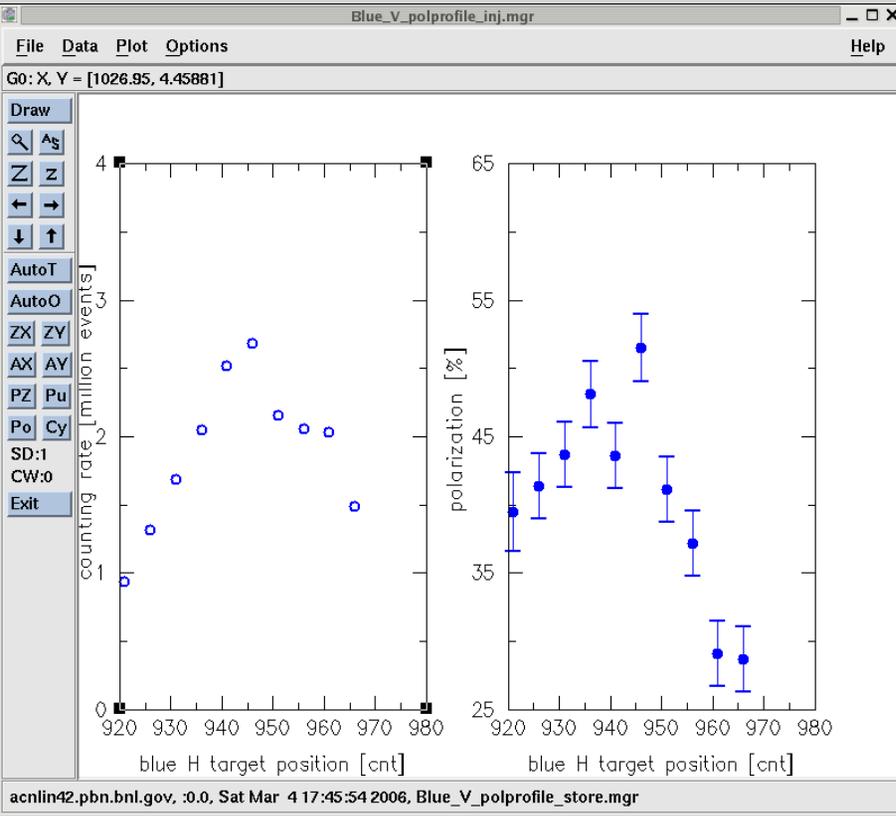


# First Physics Run stores: polarization

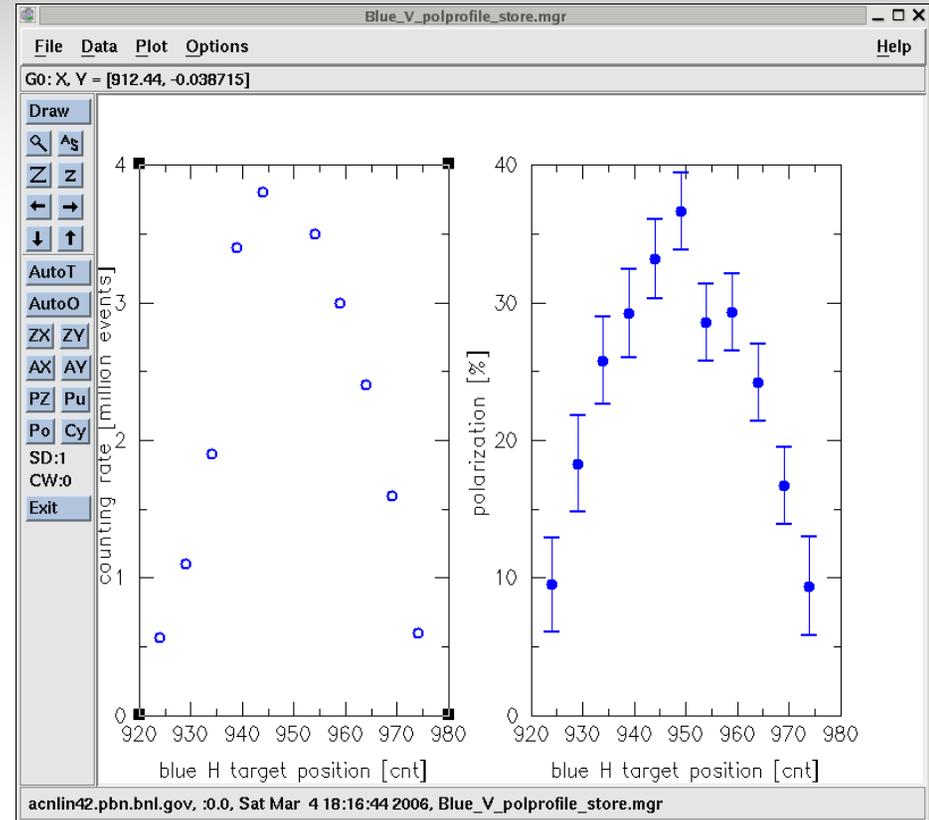


# Vertical Polarization Profiles

*As measured by Mei*



injection



store

# Working items

- Improvement of the collision vertex:
  - Usage of storage cavities
  - Smaller longitudinal emittance with quad pumping technique
- Improvement of the Blue polarization
- Increasing the luminosity by (gradually) switching to 109 bunch operation mode