# Session 13 (pbar and ILIMA) of 4th BINP-FAIR Collaboration Workshop

# 29.5.2020 10:00-13:00

Ion optic, S Udrea

- Form of the vacuum chamber in quadrupoles after separator dipole has to be optimized.
Deadline: next workshop (November 2020).
Idea (KK): improved Vacuum chamber could be also used in one CR to reduce the losses.

- Simulations results without sextupoles in the beamline or with 1 or 6 of them are presented.
If 6 sextupoles would be installed one has more possibilities to adjust the beam (O. Dolinskyy).
P. Shatunov: Serban shall compare amount of particles on the kicker magnet

- Hole in the collimator in the target station stays square

- Losses of praticles during transport were simulated with the "full beam" (Momentum spread +-10%) from MARS simulations of K. Knie though acceptance of the CR is only +-3%. Some of "bad particles", that we see on the face plane of Momentum collimator could be already stopped in the Horizontal or Vertical collimators. Therefore collimation of the amplitude and momentum must be separated (D.Shwartz).

Magnets for pbar, H. Leibrock

- pbar magnets are divided on to magnets in high radioactive area behind the target station and area with standard CR magnets downstream

- Construction of pbar separator dipole yoke has been presented (high radioactive area)

- All components with the weight above 10t must be installed in the tunnel before the 6m thick wall between pbar and CR buildings will be mounted. Weight of the quadrupoles in high radioactive area must be checked (Quadrupole3 10,6t?).

- GSI will provide adapters for the connection boxes of 8 pbar Quadrupoles

- Steering magnets for CR have smaller bending angle therefore pairs of steering magnets might be used for (must be checked whether pairs are really necessary, KK, November 2020)

- Due to space limitation in the beamline some of magnets must be mounted (combined) on the common adjustment supports (KK, November 2020)

- One pair of the steering magnets is placed in the high radioactive area. Steering magnets have no limination for dose (D. Shwartz)

Beam diagnostics, A. Reiter

- Additional meeting on the next week (23 CW 2020) with Yu. Rogovsky

- 6 detectors are needed for pbar beam line.

- Two of them are "big" BINP BPM's the same as for SFRS