PSB WEEK 47, 16-22 November 2015

MDs:

Only limited number of turns allowed for few tests ...

- **Ana, Jeroen, Marek, Alfred, Gian Piero (GP), Bettina**: Still measurements on the pick ups – major concern
- **CB, GP**: injection line analysis
- **GP**: brightness scan on initial mismatch (position and angle) – Elena’s request.
- **VF, EB, Bettina, GP**: coupling tests at injection.

Analysis from GP old data.

- Scan of the injection horizontal tune fixing the vertical at $Q_y=4.54$
- 3 turns injection
- Optimum (educated guess between max intensity and max brightness) around $Q_x=4.42$
- **QSKH0 at -0.39 A** (very small) up to C515.
- Extracted emittances show same values from $Q_x \approx 4.42$
- Losses are mostly concentrated at the beginning of the cycle (sextupolar lines not yet corrected).
- **An online model of the Twiss beta functions along the cycle (from MadX) would be useful in the WS, as the programmed tunes in the PSB change a lot during the cycle.**
After that, we fixed the tunes with 2 turns constant injection at 4.4, 4.6 to evaluate impact of the QSKH0 in its allowed range [-40,40] A.

The minimum of the emittances half-sum is close to zero and in here the brightness is maximum. Analysis has to continue... when the beam comes back.