21 January

🡪 (B. Salvant) We should try and reproduce in simulations this emittance blow-up below the TMCI threshold with the existing SPS impedance model. (done but transverse emittance with HEADTAIL difficult to trust)

🡪 (MD team) Accurate measurements with correct voltage should be done in 2011 to verify these expectations (done)

* (MD team) The most important question for the SPSU studies is the stability of nominal and ultimate LHC beams in the low gamma-t optics and the required/available RF voltage. (in progress)

17 Feb

* (N. Mounet) Implementation of multibunch with Headtail for SPS (done)
* (E. Shaposhnikova) Low harmonic RF system in the SPS for PS-SPS transfer (done)
* (MD team) Use of the best wire scanners? (done)
* (N. Biancacci and HDWG) Crosscheck incoherent effects with multi kick and lattice version (not done)
* (H. Bartosik) Look at incoherent effects with PTC/ORBIT and MICROMAP (probably not done, tbc with Hannes)
* (T. Bohl) Check with Thomas if it is possible to use the Schottky

17 March

* (N. Mounet) Compare HEADTAIL multibunch with MD data (not done)
* (B. Salvant + T. Argyropoulos) Effect of unmatched BPM on beam dynamics with HEadtail and ESME (not done)
* (B. Salvant) Check that the length of the pipe does not change the resonance properties (done)
* (B. Salvant) Simulate enamel flanges (done)

14 April

* (W. Hofle) Another presentation at future meetings will be devoted to the simulations done for CNGS beam in collaboration with E. Vogel.
* (MD team) check that difference in H/V emittance can be explained by different WPs.

12 May

* (B. Salvant) impact on beam dynamics of enamel flanges (done for Headtail, not for ESME, theory and ABCI)
* (?) compare with the PS case (not done)
* (F. Caspers) impedance measurements in-situ (not done)
* (A. Guerrero + MD team) Work on PS emittance measurements (done)
* (MD team) Check transmission on flat bottom and flat top. (done)
* (MD team) Perform simultaneous measurements of the injected longitudinal emittance (done with Heiko?)
* (MD team) Perform a similar scan with the Q26 optics. (done)

16 June

* (MD team) Study stability of multi-bunch LHC beams in the Q20 optics and the required RF voltage (in progress)
* (MD team) optimise longitudinal blow-up for high intensities (not done I think)
* (MD team) perform emittance scan with 3 PS cavities (as was done already with 2 cavities). (done)

14 July

* (MD team) see if using 3MV for the first batch also helps
* (A. Guerrero + MD team) inconsistencies observed in multi bunch/multi batch emittance measurements
* (F. Caspers) monitoring of the magnetic cycle could be useful to not retune the orbit every time (proposal of Fritz to follow-up).
* (W. Hofle) Damper setup for Q20
* Alexey advised to use a simple impedance in ESME simulations and compare with his analytical model. Action for Alexey and Chandra: take a distribution and compare results (and also with Headtail).

11 Aug

🡪 (H. Timko) simulate the transfer including rotation and include intensity effects in SPS (scaling of beam loading with intensity).

* (MD team) MDs with capture voltage scans in SPS (low gammaT is in trouble if we want to increase voltage accordingly…)
* (T. Bohl) Try tomography with the new WCM and the scope.
* (F. Caspers) measure multipacting in the carbon coating magnet.
* (F. Caspers) Michael Holz is leaving CERN very soon. Need to organize the next steps.
* (F. Caspers) See if one should measure the electrical length of a coated coaxial line with Fritz Caspers (in progress with A. Burov).
* (B. Salvant) Compare MKP simulations with bench measurements (in progress)
* (B. Salvant) Update ZBASE with more realistic kicker models (in progress)
* (MD team)see if we can run with a low chromaticity on the Q20.
* (MD team) If time allows, it would be nice to check e-cloud for the 25 ns beam with Q20.