

SPS MD Transverse Impedance measurements: week 42

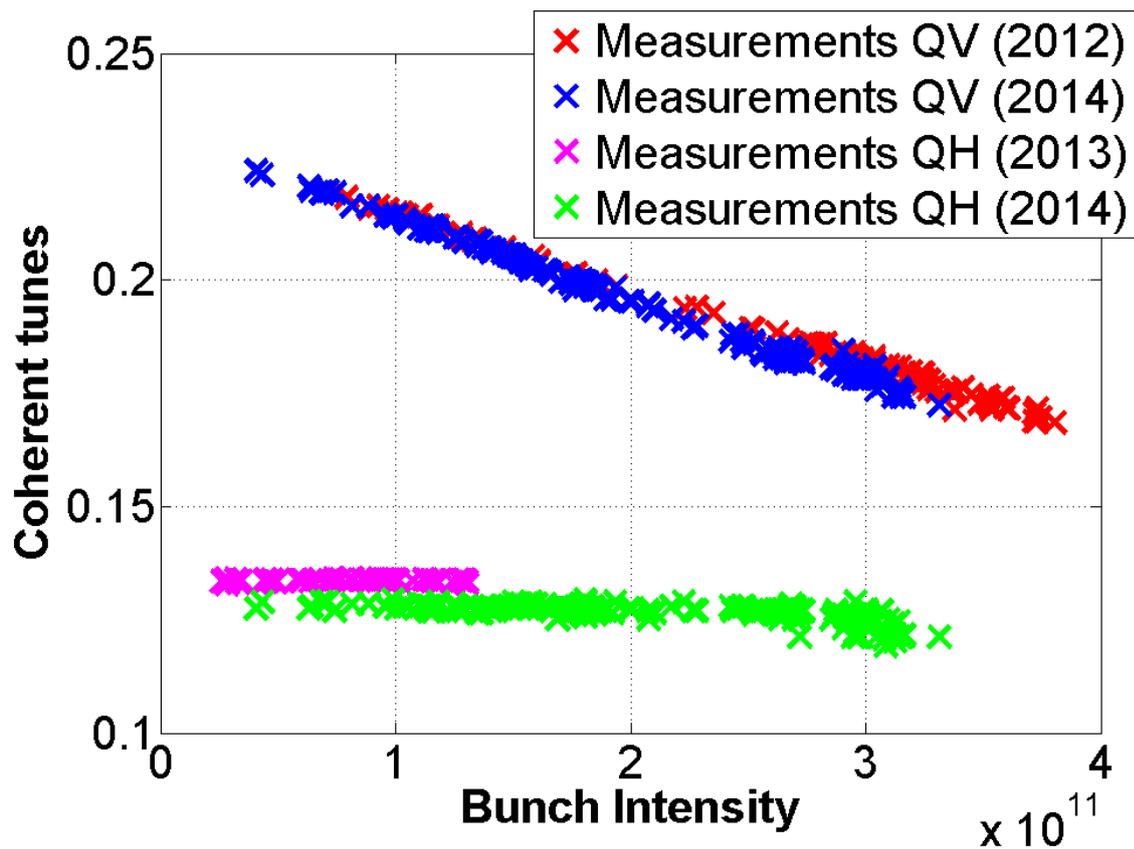
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The horizontal and vertical coherent tunes have been measured as function of the bunch intensity (up to 3.5×10^{11} ppb) for the Q20 optics. During the MD the following data were acquired:

- Bunch length from the mountain range
- Intensity from the SPS BCT
- Bunch length in the PS before bunch rotation
- Intensity from the PS
- Tunes from the BBQ Qmeter

Chromaticity measurements were not possible (radial steering at the flat bottom is not yet operational). However, the chromaticity is expected to be close to zero.

Preliminary data analysis



In all the displayed measurements the bunch lengths are very similar. As expected, the new measurements confirm the coherent tune shifts obtained before LS1 (the SPS transverse impedance is expected to be almost unchanged).