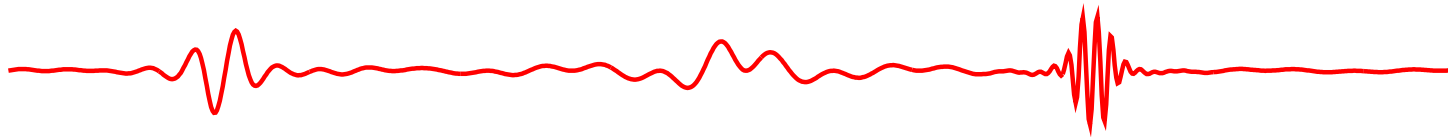


OMC review - first thoughts



R. Tomás

following discussions with O. Brüning,
M. Giovannozzi and F. Zimmermann.

LCU, March 2013

2011 OMC workshop: <http://indico.cern.ch/conferenceOtherViews.py?confId=132526>

OMC review plan and possible goal

- ★ 2-3 days around June 17
- ★ within EuCARD(2)
- ★ Possible Goal: Review the readiness of high resolution optics measurements and corrections after LS1.

Operational aspects

- ★ Ramp & squeeze, M. Solfaroli
- ★ β^* leveling, collide & squeeze,
- ★ FiDeL status,
- ★ Nominal Vs ATS, incorporate dipole b_2 in design, collision scenarios,
- ★ Non-linear modelling and machine set-up,
- ★ LSA upgrades,
- ★ On-line modelling,

Instrumentation

- ★ Requirements from BI,
- ★ AC dipole upgrades, N. Magnin
- ★ Aperture kickers,
- ★ The main BPM system, longer acquisitions,
- ★ New BPMs after LS1, M. Gasior
- ★ Automatic coupling correction, T. Persson
- ★ BPM non-linear response correction,

Optics measurements and corrections

- ★ Improvements in accuracy and error reconstruction, A. Langner
- ★ Chromatic coupling correction, Y. Levinsen
- ★ Automatic local error correction, P. Skowronski
- ★ Measurement of amplitude detuning with AC dipoles, S. White
- ★ K-modulation, G. Trad?
- ★ OMC codes, T. Bach?

Early commissioning stage

- ★ Plan, sector tests?,
- ★ Threader, tune and BPMs and orbit corrector polarities,
- ★ Aperture checks/meter,
- ★ Polarity checks of non-linear circuits,
M. McAteer.