

Minutes of the HL-LHC WP2 Task 2.4

**26th (VIDYO) meeting on Wednesday 15/07/2015
(11:00-12:30, 18/3-008)**

Task 2.4 members: Alexey Burov (AB), Alessandro Drago (AD), Alessandro Gallo (AG), Andrea Mostacci (AM), Alessandro Vivoli (AV), Benoit Salvant (BS), Bruno Spataro (BrunoS), David Alesini (DA), Deepa Angal-kalinin (DAK), Elias Metral (EM), Elena Shaposhnikova (ES), Fabio Marcellini (FM), Fritz Caspers (FC), Frank Zimmermann (FZ), Gianluigi Arduini (GA), Giovanni Rumolo (GR), Hugo Alistair Day (HAD), John Jowett (JJ), Kevin Li (KL), Luigi Palumbo (LP), Mauro Migliorati (MM), Michel Martini (MM), Mikhail Zobov (MZ), Nicolas Mounet (NM), Nicolo Biancacci (NB), Oliver Boine-Frankenheim (OBF), Olga Zagorodnova (OZ), Oscar Frasciello (OF), Paul Goergen (PG), Rainer Wanzenberg (RW), Uwe Niedermayer (UN), Wolfgang Hofle (WH).

Present/Excused: AB, AD, AG, AM, AV, **BS**, BrunoS, DA, DAK, **EM**, ES, FM, FC, FZ, GA, GR, HAD, JJ, **KL**, LP, MM, MichelM, MZ, NM, **NB**, OBF, OZ, OF, PG, RW, UN, WH, Na Wang, LeeRC, **ClaudiaT**, **JuanEM**.

1) General information (EliasM):

- See all the actions from the previous meetings.
- BenoitS and NicoloB => 2 summer students: Tony Jin to work on HL-LHC TDI (for the moment working on the wire scanner) and Frabrizio Riminucci on HL-LHC holes in beam screen.
- OscarF informed us that they found other issues in GdFidL.
- Someone from Moscow will come to work on the 800 MHz system.
- From LMC last week, there are some plans for AFP (RPs around ATLAS, like TOTEM for CMS) for HL-LHC...

2) Update of beam stability studies with Crab Cavities: DELPHI (NicoloB)

=> https://espace.cern.ch/be-dep/ABP/HSC/Meetings/HSC_17-08-15_Minutes.pdf

- The DQW (BNL) and RFD (ODU) crab cavities HOM table has been recently updated (see on <http://cern.ch/imp/HLLHC.htm> => BenoitS should discuss with RamaC et al. to see if the new tables make sense, as it was mentioned in the past that the work in the damping of some HOMs was not

finished...) => The stability study campaign is restarted accounting for the new HOM distribution.

- BenoitS mentioned that in EDMS they erased the previous versions of Crab Cavities HOM tables => Pity as we should keep track of the evolution.

- Conclusion: NicoloB confirmed that the Crab Cavities impedance generally increases the HLLHC baseline growth rate both in single bunch and coupled bunch. More analyses ongoing.

3) Update of beam stability studies with Crab Cavities: pyHEADTAIL (KevinL)

=> https://indico.cern.ch/event/406051/contribution/0/attachments/1126874/1609161/draft_01.pdf

- KevinL extended the table to use exactly the same as the one from NicoloB => 4 sets of wake fields (DQW and RFD, old and new), etc. to have the same conditions as Nicolo.

- The simulations are running...

4) Talk from NaW => Postponed

5) Next meeting

- The next (27th) Task 2.4–2.7 VIDYO meeting will take place on Wednesday 02/09/2015 from 11:00 to 12:30 in the room 6/R-018 for the CERN people. The agenda is

1) General information (EliasM)

2) Round table and status of the different activities: (everybody)

Minutes by EliasM, 27/08/2015.