

## Minutes of the HL-LHC WP2 Task 2.4

**28<sup>th</sup> (VIDYO) meeting on Wednesday 16/09/2015  
(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, GianniI, LeeC, **JuanEM**.

### 1) General information (EliasM):

- Everybody is busy with many activities (MDs, machines follow-up, etc.) => Main priority should be now to prepare (well) all the talks for the coming LIU-HLLHC meeting on 15/10/15 (<https://indico.cern.ch/event/437662/>).
- Seems that all the speakers are in contact with all the relevant people => We will discuss in more detail these talks during the next meeting.

### 2) Summary of all activities:

- E-cloud => Will be discussed at the e-cloud meeting on Friday (the effect of the baffles).
- Impedance studies
  - TDI (ongoing),
  - Stripline (we need to do simulations as we now have the designs),
  - Triplets (3 questions to be answered: shielding of bellow, beam screen coating and weld),
  - 11 T (should it be considered as the baseline?).

- TCDQ: question from the optics team if it is OK to reduce the beam size (horizontal) at the TCDQ (which means reducing the gap).
- Impedance of the crab cavities: ongoing => NicoloB will report at a coming WP2 TL meeting.
- PyHEADTAIL vs. DELPHI: some simulations still under discussion.
- Effect of 200 and 800 MHz: KevinL is running some simulations to be included in the talk of JuanEM.

### **3) Next meeting**

- The next (29th) Task 2.4–2.7 VIDYO meeting will take place on Wednesday 30/09/2015 from 11:00 to 12:30 in the room 6/R-018 for the CERN people. The agenda is
  - 1) General information (EliasM)
  - 2) Review (in view of the preparation of the coming LIU-HLLHC meeting)
    - The impact of a 800 MHz RF system in the transverse plane and review the advantages/disadvantages of such a system globally (longitudinal + transverse);
    - The impact of a 200 MHz RF system: advantages for e-cloud and impact on transverse / longitudinal plane.
  - 3) Round table (everybody) to discuss the status of the different activities (impedance, feedback, e-cloud, interplay with beam-beam, beam stability, beam-induced RF heating, double RF system, etc.).

*Minutes by EliasM, 29/09/2015.*