

Minutes of HSS meeting held on 1/6/2016

Presents: R. Bruce, F. Carlier, R. De Maria, L. Deniau, M. Fiascaris, H. Garcia Morales, M. Giovannozzi, P. Hermes, S. Hirlander, J. Jowett, L. Medina, A. Mereghetti, T. Mertens, M. Patecki, A. Santamaria, K. Sjobaek, G. Sterbini, R. Tomas, J. M. Coello De Portugal - Martinez Vazquez, F. Van Der Veken, J. Wagner, A. Wegscheider.

- Report from meetings
 - General information (Massimo Giovannozzi)
 - People are reminded of the ABP annual group meeting.
 - LBS (Helmut Burkhardt)
 - Nothing to report.
 - Collimation status (Stefano Redaelli)
 - Nothing to report.
 - OMC activities (Rogelio Tomas Garcia)
 - FESA class for DOROS has been developed on time and successful tests has been carried out.
 - Parasitic optics measurements as end-of-fill.
 - MAD-X status (Laurent Deniau)
 - New PTC is performing like the old one.
 - Coupling treatment is still problematic.
 - Python workshop: the level of the presentations was not very high.
 - SixTrack status (Riccardo De Maria)
 - Clean up is in progress.
 - Dynamic effects are gaining additional features.
 - Coupling with FLUKA has to be included in the design of any SixTrack development as an essential boundary condition.
 - Windows compilation is still a problem. The new Makefile has been revived. A virtual machine set up by Laurent is being used for Windows compilation. Documenting the virtual machine is essential.
 - Educational talk by Frank on numerical errors on 16th of June at 2pm.
 - On-line model status (Piotr Skowronski)
 - Nothing to report.
- HiLumi LHC - Progress on MCBXF Simulations -> FVDV
 - New error routines have been developed to assign absolute magnetic field errors to MCBXF magnets.
 - The DA is dominated by MAXBFA.
 - In case the non-linear corrector package is taking care of the FQ of the MCBXF, then the expected FQ has a marginal impact on DA. Otherwise, a sizeable reduction is observed, which calls for a further optimisation of the magnet design.
- Python-based tool for LHC data mining -> RDM
 - The presentation triggered lots of discussions and interest, which shows that computing aspects are essential for accomplishing our activities.

- There is also a clear need to co-ordinate efforts within the group (e.g., to avoid duplication of efforts). Moreover, our needs should be better supported by IT, as in some cases, ABP staff is providing an IT-like service to be able to carry out the task requested.