FEL SImulation Meeting Notes

2007 December 11, WBGB 020, 1400-1515

Participants: Andreas Adelmann, Thomas Schietinger, Christof Kraus, Anne Oppelt, Rene Bakker, Alexander Anghel, Marco Pedrozzi, Michael Boege, Andreas Streun, Jean-Yves Raguin, Frank Stulle, Benedikt Oswald (**minutes**).

Note: (1) the presentations given by the speakers are attached to these notes. They will therefore not be commented on here. (2) The FELSI logo is used on behalf of the AMAS group.

Agenda & Associated Notes

"Introduction", *Andreas Adelmann* (1) Main idea of FELSI meeting is to synchronize all people concerned with computational work for the XFEL project (2) Serve as a platform for discussion and early recognition of potential congestions, problems, bottlenecks.

"HOMDYN simulations for the 250 MeV injector", *Anne Oppelt and Rene Bakker* (1) Presentations given by Rene Bakker, additional comments by Anne Oppelt re usage of BET over HOMDYN and limits re electric field gradient; her conclusions are available in a separate LEG report.

"OBLA status on BD-Simulations ", *Thomas Schietinger* (1) cf. attached presentation.

"CANDLE Collaboration", *Rene Bakker* (1) these comments are addressed in the 2nd presentation.

"Beam Dynamics Link for Femaxx - Status and Prospects", *Benedikt Oswald* (1) Comment by Christof Kraus re 3-dimensional cartesian field maps; these can be used by Opal. (2) The most up-to-date geometry of the 2-Cell Cavity is needed in order to validate this functionality. (3) The cyclotron copper cavity has been made available by Markus Bopp already.

"OPAL status", *Andreas Adelmann*, *Christof Krau*s and *Yves Ineichen* (1) Rational for switching from IMPACT code to much more structured Opal framework.

Miscellaneous and Discussion: (1) Andreas Adelmann: there will be a report by former guest scientist Steve Russel (Los Alamos, National Laboratory) on his work for the 250 MeV machine when he was at PSI. (2) Andreas Adelmann explains that computing time in Manno has been exhausted in November 07 and the project management is asked to apply for a large project account so that increasing computational needs can be met next year.

Session closed.