FEL SImulation Meeting Notes

2008 February 26, WBGB 020, 1400-1530

Invited Participants: Andreas Adelmann, Ake Andersson, Christof Kraus, Rene Bakker, Alexander Anghel, Michael Boege, Romain Ganter, Yujong Kim, Anne Oppelt, Stefan Pauli, Marco Pedrozzi, Frederic LePimpec, Jean-Yves Raguin, Leonid Rivkin, Thomas Schietinger, Andreas Streun, Frank Stulle, Marcus Wittberger, Albin Wrulich, Benedikt Oswald (**minutes**).

W.r.t Talks

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

1. **A. Adelmann "OPAL V1.0" (http://amas.web.psi.ch/docs/index.html)**
   Q: has the model the 2-frequency cavity ? A: fields can overlap; define two rf cavities with different fieldmaps
   Q: performance compared to Impact-T A ? on a single core still slower but scales better
   Q: do drifts have to be modeled explicitly ? A: no; remark: use the actual names of the real elements as defined for the XFEL-project
   Q: are image charges implemented ? A: not yet

2. **A. Adelmann "XFEL Computing Issues"**
   - CSCS large user account
   - MERLIN
   Q: Time for the 3 options ? A: (1) April (2) few weeks (3) years.

3. **Yujong Kim "Experimental Measurements Based Back Tracking Simulations for Recent OBLA Operations"**
   Q: regarding slicing A: not answered yet, will be investigated by Yujong Kim.

4. **Varia**
   Remarks by Frederic LePimpec: (1) migration of controls application for OBLA test stand toward being based on Matlab in progress (2) data will be stored using the HDF5 standard
   Remark by Thomas Schietinger: (1) the structure of the HDF5 file needs to be discussed in order to maintain consistent use.