

Date: 2008 Feb 13	Subject: FEL Simulation Meeting Notes	Document
		Chairman Andreas Adelman (AA84)
Participants	Andreas Adelman, Ake Andersson, Rene Bakker, Alexander Anghel, Michael Boege, Terry Garvey, Rasmus Ischebeck, Davit Kalantaryan, Yujong Kim, Thomas Schietinger, Bernd Steffen, Lukas Stingelin, Andreas Streun, Frank Stulle, Benedikt Oswald.	Minutes Benedikt Oswald (OB84)

- 1 **First Simulation on a Backup Gun, Yujong Kim:** questions re (1) inclusion of Schottky effect: included (2) usage of cylinder symmetry in the ASTRA code: yes
- 2 **CSR Update, Frank Stulle:** oral contribution only, no slides: bunch compressor design optimized in 1D; single 3D CSR simulation has been performed; at present there is no code available to do reliable and comprehensive 3D CSR studies.
- 3 **Beam Dynamics Study for PSI-XFEL Linac, Bagrat Grigoryan (CANDLE/Yerevan/Armenia):** question regarding reduction of FODO cells by a factor of 10, cf. reduction by smaller factor in conclusions of talk: this question can not be answered at present.
- 4 **PSI XFEL branch 3 SASE FEL Simulations with SIMPLEX, Bagrat Grigoryan (CANDLE/Yerevan/Armenia):** talk held by Bagrat Grigoryan, originated by V. Khachatryan, cf. attached document.
- 5 **Very short OPAL Update and Computation time on Horizon /Merlin Andreas Adelman:** short information on HPC at PSI: questions arised (1) re status and availability of merlin cluster at PSI; (2) on application for a large user projects account at CSCS

(1) Merlin as a small general purpose cluster: <http://ait.web.psi.ch/services/linux/hpc/merlin3/>

(2) Horizon i.e. Cray XT-3 at CSCS: <https://www-users.cscs.ch/cgi-bin/status.cgi/>

On the question of Large User Projects at CSCS here some information:

Preparatory Projects are for users who would like to test new applications or algorithms. They are usually run on preparation of an application for a production project. These projects consist of a limited and finite amount of compute resources. They are allocated for 3 months, may be granted at any time and extended by a maximum of 3 months based on CSCS' evaluation of the request. Data produced during a preparatory project will be kept for a maximum of 3 months after the end of the project. In general we do not have to do that, our applications are well known, we only have to show some data like scalability etc.

Production Projects are granted every 6 months. They are aimed at the production work for a specific scientific project. The calls are issued in spring and autumn. They have a maximum



duration of 12 months and data will be stored for up to 6 months after the end of the project.
Applications must be filed before the end of April.