

Special Mini-Workshop on Magnet Simulations for Particle Accelerators

May 18 (Wednesday) and May 19 (Thursday)

Meeting room: KCC, 300A

Agenda

I. Welcome and Get to Know Each Other (May 18, 2:00 PM – 2:20 PM)

II. Workshop Presentations on Magnet Simulation Activities, Codes, and Applications

May 18, 2:20 PM – 3:00 PM

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| 1 Bernward Krause (DESY) | Magnets for the DESY accelerators HERA - TTF - PETRA -XFEL |
| 2 Michaela Marx (DESY) | Magnet Simulation at DESY |

May 19, 2:00 PM – 6:30 PM

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| 3 Wuzheng Meng (BNL) | Magnet Simulation Activities at BNL |
| 4 Ted Hunter (ORNL) | SNS Linac Magnet Design Simulations at LANL |
| 5 Al Zeller (NSCL) | Magnet Design and Radiation Transport for the RIA Fragment Separator |
| 6 Steve Gottschalk (STI) | Magnet Simulation Activities and Codes at STI Optronics |
| 7 J. G. Wang (ORNL) | SNS Magnet Simulations at ORNL |
| 8 Marco Venturini (LBNL) | Computation of Exact Transfer Maps from Magnet Simulation Data
(A sketch of the method and progress was given by J. G. Wang) |
| 9 Cherrill Spencer (SLAC) | Magnet Modeling and its Various Uses at SLAC |

(Coffee Break, 4:00 PM – 4:20 PM)

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| 10 David Harding (FNAL) | Magnet Simulation Activities at FNAL |
| 11 Yury Ivanyushenkov (RAL) | (1) Modeling of Superconducting Helical Undulator
(2) NED project |
| 12 Stepan Mikhailov (Duke U.) | Experiences in Magnetic Simulations with MERMAID 2D/3D code at Duke FEL |
| 13 Olivier Delferriere (CEA-Saclay) | Magnet design and studies at DAPNIA/SACM/LEDA |
| 14 John Simkin (VF) | Accurate Field and Field Harmonic Calculations for Accelerator Magnets |

III. Questions and Discussions on Simulation Codes and Techniques

IV. Future Collaboration