

Preliminary program

Monday, 3 October 2016

Welcoming

Room: ICTP - Leonardo Building Hall

09:00
↓
Registration

12:30
↓
Lunch

Ray-Tracing and Optical Calculation Tools

Chair: Luca Rebuffi

Room: Budinich Lecture Hall

13:45
↓
Luca Rebuffi
Introduction

14:00
↓
Prof. Alfonso Franciosi - Elettra President and CEO
Welcome speech

14:15
↓
Rami Sankari (MAX IV)
Simulations and design for soft-X-ray beamlines at MAX IV

15:15
↓
Ruben Reininger (ANL)
Advances in Soft X-Ray beamlines design

16:15
↓
Coffee Break

16:30
↓
Manuel Sanchez del Rio (ESRF)
Simulating hard x-ray beamlines by ray-tracing using ShadowOui

17:30
↓
18:00
Sergey Stepanov (ANL)
X-ray Server: dynamical X-ray diffraction on the web. Scope, history, capabilities, and future plans

OASYS Helpdesk

Chair: Luca Rebuffi & Manuel Sanchez del Rio

Room: to be defined

20:00
↓
22:00
Luca Rebuffi & Manuel Sanchez del Rio
Installation of OASYS on Mac, Linux and Windows

Tuesday, 4 October 2016

Wavefront Propagation

Chair: Ruben Reininger

Room: Budinich Lecture Hall

09:00
↓
Oleg Chubar (BNL)
High-Accuracy Partially- and Fully-Coherent Wavefront Propagation Calculations for Storage Ring and Free-Electron Laser Sources

10:00
↓
Xianbo Shi (ANL)
Partial Coherence, the Hybrid Method

10:30
↓
Coffee Break

11:00 ↓	Daniele Cocco (SLAC) What you always wanted to have from a simulation software (and you never dare to ask for)
12:00 ↓	Carsten Fortmann-Grote Simulations of Experiments (SIMEX) work package in the European project EUCALL
12:30 ↓	<i>Lunch</i>

Industrial Applications
Chair: Marco Zangrando
Room: Budinich Lecture Hall

14:00 ↓	Sara Paroni (Automotive Lighting Rear Lamps Italia S.p.A.) Automotive lighting optical design and simulation: sequential and non-sequential ray-tracing
14:40 ↓	Frank Wyrowski (Wyrowski Photonics) Fast physical optics modeling of x-ray systems
15:00 ↓	Sven Niese (Axo-Dresden) Raytracing of real optics: tweaking the design of customized X-ray multilayer mirrors
15:20 ↓	David Bruhweiler (Radiasoft) An open source GUI for collaborative cloud-based X-ray optics modeling
15:40 ↓	<i>Coffee Break</i>

16:00 ↓	Guillaume Dovillaire (Imagine Optics) Hartmann Wavefront measurement method and beamline alignment
16:20 ↓	Stefan Brandstetter (Dectris) Hybrid Photon Counting Detectors for Current and Future Storage Rings
16:40 ↓	Riccardo Signorato (Cinel) Strumenti scientifici CINEL: a reliable supplier for integrated optical components as well as a skillful partner for R&D projects
17:00 ↓ 17:20	Mirko Kokole (Kyma) Optical calculations for the design of undulators at Kyma

OASYS Helpdesk
Chair: Luca Rebuffi & Manuel Sanchez del Rio
Room: to be defined

20:00 ↓ 22:00	Luca Rebuffi & Manuel Sanchez del Rio Installation of OASYS on Mac, Linux and Windows
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Wednesday, 5 October 2016

Ray-Tracing: Soft X-ray SR-Beamlines
Chair: Sergey Stepanov
Room: Budinich Lecture Hall

09:00 ↓	Ruben Reininger (ANL), Manuel Sanchez del Rio (ESRF) Ray Tracing and Wave Propagation on Soft X-Ray beamlines design (part 1)
10:30 ↓	<i>Coffee Break</i>
11:00 ↓ 12:30	Ruben Reininger (ANL), Manuel Sanchez del Rio (ESRF) Ray Tracing and Wave Propagation on Soft X-Ray beamlines design (part 2)
12:00 ↓	<i>Lunch</i>

Ray-Tracing: Hard X-ray SR-Beamlines
Chair: Oleg Tchubar

Room: Budinich Lecture Hall

14:00
↓
Manuel Sanchez del Rio (ESRF), Luca Rebuffi (Elettra-Sincrotrone Trieste)
Simulating hard x-ray beamlines by ray-tracing using ShadowOui: Practical Session (part 1)

15:30
↓
Coffee Break

16:00
↓
17:30
Manuel Sanchez del Rio (ESRF), Luca Rebuffi (Elettra-Sincrotrone Trieste)
Simulating hard x-ray beamlines by ray-tracing using ShadowOui: Practical Session (part 2)

Thursday, 6 October 2016

Wavefront Propagation: SR-Beamlines

Chair: Manuel Sanchez del Rio
Room: Budinich Lecture Hall

09:00
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Oleg Chubar (BNL)
Running Simulations with Synchrotron Radiation Workshop: from Web, under Python, in IGOR (part 1)

11:00
↓
Coffee Break

11:30
↓
Oleg Chubar (BNL)
Running Simulations with Synchrotron Radiation Workshop: from Web, under Python, in IGOR (part 2)

12:00
↓
Xianbo Shi (ANL), Luca Rebuffi (Elettra-Sincrotrone Trieste)
Practical session on Hybrid method within ShadowOui

12:30
↓
Lunch

Wavefront Propagation: FEL

Chair: Marco Zangrando
Room: Budinich Lecture Hall

14:00
↓
Daniele Cocco (SLAC), Lorenzo Raimondi (Elettra-Sincrotrone Trieste), Cristian Svetina (Elettra Sincrotrone Trieste)
Practical session on FEL calculations with ShadowOui and WISE

15:30
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Coffee Break

16:00
↓
17:30
Liubov Samoylova
Practical session on XFEL calculations

19:00
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24:00
Social Dinner

Social Dinner

Friday, 7 October 2016

Optical Calculation Tools

Chair: Daniele Cocco (SLAC)
Room: Budinich Lecture Hall

09:00
↓
Manuel Sanchez del Rio (ESRF)
Practical session on XOPPY

10:30
↓
Coffee Break

11:00
↓
Sergey Stepanov (ANL)
A practical guide to accessing X-ray Server: web browser, scripting and XOPPY interfaces, adding new crystals and getting help

12:30

