

EG Photon Beam Transport and Diagnostics Work Plan 2.2

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Wavefront Propagation Workshop

Agenda

Wednesday, 1st July 2009 at Daresbury Laboratory

12:30	Buffet lunch	
12:55	Welcome	
13:00 - 13:40	Johannes Bahrtd	Presentation PHASE code - Link to the code
13:40 - 14:20	Peter van der Slot	Presentation OPC code - Link to the code
14:20 - 15:00	Marion Bowler	Presentation FOCUS code - Link to the code
15:00	Coffee break	
15:15 - 16:15	Bernd Schäfer	Partially coherent laser beams - Propagation, Measurement and Representation
16:15 - 18:15	First hands on session	Coffee available
18:15	Transport to Hotel	
19:30	Dinner at Hotel	

Thursday, 2nd July 2009 at Daresbury Laboratory

9:00 - 13:00	Second hands on session, switch groups mid-way if required
11:00	Coffee available
13:00	Buffet lunch
14:00	Discussion - possible collaborations, future work...
15:00	END

Summary Report

Nineteen people gathered at STFC's Daresbury Laboratory on the 1st and 2nd of July for a wavefront propagation workshop funded by IRUVX. The workshop is part of the programme of the WP3 Expert Group in Photon Beam Transport and Diagnostics and was aimed specifically at helping people carry out simulations of the transport of coherent radiation along photon beamlines.

The workshop focussed on three wavefront propagation codes and talks were given on these codes by the people responsible for their development. The codes were PHASE (Johannes Bahrtd), OPC (Peter van der Slot) and FOCUS (Marion Bowler). Plenty of time was allowed for people to try out these codes during the meeting.

Wavefront propagation is strictly only applicable to fully coherent radiation, and an invited talk of

the methods required for partially coherent light was given by Bernd Schäfer from the Laser Laboratory at Göttingen.

There was also time for a tour of ALICE - the development Energy Recovery Linac accelerator at Daresbury.



■ Participants

BAHRDT, Johannes	Helmholtz Zentrum Berlin	GERMANY
*BOWLER, Marion	STFC Daresbury Lab	UNITED KINGDOM
*COCCO, Daniele	Sincrotrone Trieste	ITALY
FLÖTER, Bernhard	Laser-Laboratorium Göttingen e.V.	GERMANY
GERTH, Christopher	DESY Hamburg	GERMANY
GLEESON, Anthony	STFC Daresbury Lab	UNITED KINGDOM
LAUNDY, David	Daresbury Laboratory	UNITED KINGDOM
LEITNER, Torsten	Helmholtz Zentrum Berlin	GERMANY
*MITZNER, Rolf	HZB / BESSY II Berlin	GERMANY
PLÖNJES, Elke	DESY Hamburg	GERMANY
*ROPER, Mark	STFC Daresbury Lab	UNITED KINGDOM
SCHWENKE, Jörg	Lund University / MAX-lab Lund	SWEDEN
SCHÄFER, Bernd	Laser Laboratorium Göttingen	GERMANY
SIEWERT, Frank	HZB / BESSY-II Berlin	GERMANY
*SOBIERAJSKI, Ryszard	Inst. of Phys., Polish Academy of Sciences	POLAND
SVETINA, Cristian	Sincrotrone Trieste	ITALY
*VAN DER SLOT, Peter	Uni Twente/Mesa+Institute for Nanotechnology	THE NETHERLANDS
WILHELM, Aljoscha	Uni Hamburg	GERMANY
*ZANGRANDO, Marco	TASC INFN-CNR / Sincrotrone Trieste	ITALY

(* Expert Group members)

- **Objective**

To provide tuition on wavefront propagation codes and to foster collaborations in this area.

- **Activity description**

The workshop focussed on three programs which were available for people to try - PHASE, OPC and FOCUS. The authors or persons responsible for each of the codes were present and as well as giving a talk were able to provide assistance to those trying out the codes. An 'invited talk' on Partially Coherent light was also given by Dr. Bernd Schäfer from the Laser Laboratory at Göttingen.

More than half of the workshop was dedicated to trying out the codes and to informal discussion.

The format was definitely successful - there were many small group discussions during this time, and most people were able to try running at least one of the codes. *One immediate outcome is the incorporation of the FOCUS code into the OPC suite.*

- **Future Activities**

It was decided to review the status of the code development and current applications of the codes for beamline development within a dedicated session at the 2nd Annual Meeting of IRUVX-PP (1/3-5/3 2010 in Döllensee near Berlin, Germany).

- **Link to the codes**

Link to the wavefront propagation codes

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