

VILLA MONASTERO, VARENNA, ITALY *INTERNATIONAL CONFERENCE ON*

ULTRASHORT HIGH-ENERGY RADIATION AND MATTER

PROGRAMME

OCTOBER 7, MORNING (9.00-12.00):

8.45: ALAN WOOTTON, DIMITRI BATANI, OPENING

9.00: FRED HARTEMANN, LawrenceLivermore National Laboratory
"Basic concepts in advanced X-ray sources" (topic 1.1)

9.35: MICHELE BERTOLO, Elettra,.Trieste
"Synchrotron radiation: properties and related analysis techniques" (topic 1.4)

10.10: BRIGITTE CROS, LPGP, University of Orsay
"Soft X-ray laser driven by a guided ultra-short laser pulse" (topic 1.7)

10.30 - 11.00: COFFEE BREAK

11.00 : CHARLES JOACHAIN, Université Libre de Bruxelles, Belgium
"Interaction of Ultra-Intense Laser Pulses with Relativistic Ions" (topic 3)

11.40: ALAN MICHETTE, King's College, London
"Recent developments in laser-plasma sources and optics for x-ray microscopy and microprobing" (topic 1.2)

OCTOBER 7, AFTERNOON (15.30-19.00):

15.30-16.50: POSTER SESSION

16.00 - 16.20: COFFEE BREAK

16.50: MARCO BELLINI, Istituto Nazionale Ottica Applicata, Firenze
"Generation and applications of XUV harmonics" (topic 1.3)

17.25: RENE BAKKER, Sincrotrone Trieste, Italy
"Development of VUV and X-ray FELs" (topic 1.5)

18.00: KATSUNOBU NISHIHARA, Institute of Laser Engineering, Osaka
"Laser-Produced-Plasma for EUV Light Source for Lithography" (topic 1.2)

18.20: PAOLO VILLORESI, University of Padova
"Toward the single-cycle regime in generation of high-order laser harmonics" (topic 1.3)

18.40 : JUERGEN STEIN, MPQ, Garching, Germany
"Hot electron diagnostics using X-rays and Cerenkov radiation" (topic 4)

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OCTOBER 8, MORNING (9.00-12.00):

9.00: RICHARD LONDON, Lawrence Livermore National Laboratory
"The physics of photon- materials interactions"(topic 3)

9.35: JÜRGEN MEYER-TER-VEHN, MPQ Garching
"Plasma physics with X-rays" (topic 4)

10.10: MATT ZEPF, Queen's University Belfast
"gamma ray beam production and probing in laser matter interaction" (topic 4)

10.30 - 11.00: COFFEE BREAK

11.00: RICHARD R. FREEMAN, University of California Davies
"Use of ultra-high intensity, short pulse lasers in fusion energy development" (topic 4)

11.20 : KLAUS EIDMANN, MPQ Garching
"Isochoric heating of matter by intense X-ray pulses" (topic 4)

11.40: YUJI FUKUDA, Advanced Photon Research Center, JAERI
"Generation of energetic-ions and X-rays in clusters irradiated by ultra-intense 20 fs laser pulses" (topic 4)

OCTOBER 8, AFTERNOON (15.30-19.00):

15.30-16.50: POSTER SESSION

16.00 - 16.20: COFFEE BREAK

16.50: LEONIDA GIZZI, CNR, Pisa
"Recent results in laser-plasma X-ray sources" (topic 1.2)

17.25: ANNIE KLISNICK, Laboratoire d'Interaction du rayonnement X avec la Matière,
Orsay "Towards XUV laser facilities in Europe" (topic 1.7)

18.00: LUIGI PALUMBO, Universita' di Roma "La Sapienza"
"The SPARC/X projects at LNF" (topic 1.5)

18.40: ANATOLY FAENOV, Nat.Res.Inst. Phys. Measurements, Moscow
"Hot electron influence on the radiation properties of matter under interaction by short laser pulses" (topic 4)

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OCTOBER 9, MORNING (9.00-12.00):

9.00: ANTONIO RITUCCI, Universita' dell'Aquila, Italy
"Table top X ray laser systems"

9.20: ERNST FILL, MPQ Garching
"Photopumping of XUV lasers by XFEL-Radiation" (topic 1.5)

9.40: THOMAS TSCHENTSCHER, Hasylab / Desy
"Short wavelength FEL facilities and experiments" (topic 6)

10.15: MARKUS ROTH, TU-Darmstadt, Germany
"X-Ray and particle diagnostics for warm dense matter research" (topic 4)

10.35 - 11.00: COFFEE BREAK

11.00: LUCIA MANCINI, Elettra, Trieste, Italy
"X-ray imaging applications of third generation synchrotron sources in material science"
(topic 2)

11.20 : ANDRE' EGBERT, Laser Zentrum Hannover
"High-repetition rate electron-based ultrashort hard-x-ray source and first applications"
(topic 1)

11.40: ANDREI SAVELEV, Lomonosov Moscow State University "Efficient hard X-ray
source using femtosecond plasma at solid and liquid targets" (topic 4)

OCTOBER 9, AFTERNOON (15.30-22.00):

TRAVEL TO PIONA ABBEY and VALTELLINA, WINE CAVES, SOCIAL DINNER

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OCTOBER 10, MORNING (9.00-12.00):

9.00: EDMOND TURCU, Rutherford Appleton Laboratory

“Soft X-ray laser plasma sources and applications” (topic 1.2)

9.35: ROUSSE ANTOINE, LOA, Ensta, Palaiseau

“A femtosecond x-ray beam from laser produced plasma: the betatron source” (topic 6)

10.10: JACEK KRZYWINSKI, Warsaw University

“Interaction of intense ultrashort VUV pulses with solids – results from the Tesla Test facility FEL. Phase. I” (topic 6)

10.30 - 11.00: COFFEE BREAK

11.00: KAZUTAKA G. NAKAMURA, Tokyo Institute of Technology

"Picosecond time-resolved X-ray diffraction from laser-shocked semiconductors" (topic 6)

11.20 : ELKE PLÖNJES, Hasylab / Desy, Hamburg, Germany

“Layout and photon beam diagnostics at the VUV FEL user facility at DESY” (topic 2)

11.40: MERDJI HAMED, Service des Photons Atomes et Molecules, CEA, France

"Manipulating intense XUV coherent light" (topic 2)

OCTOBER 10, AFTERNOON (15.30-19.00):

15.30-16.50: POSTER SESSION

16.00 - 16.20: COFFEE BREAK

16.50: JOHN COSTELLO, Dublin City University

"Photoabsorption and Photoionization Imaging and Spectroscopy with Laser Plasma Light Sources" (topic 2)

17.25 - 19.00: ROUND TABLE AND CONCLUSIONS