



"PIERO CALDIROLA" INTERNATIONAL CENTRE FOR THE PROMOTION OF SCIENCE  
AND INTERNATIONAL SCHOOL OF PLASMA PHYSICS



*INTERNATIONAL CONFERENCE ON*

# ULTRASHORT HIGH-ENERGY RADIATION AND MATTER

*VILLA MONASTERO, VARENNA, ITALY*

*October 7 -10, 2003*

## **ORGANISED BY**

- "Piero Caldirola" International Centre for the Promotion of Science  
and International School of Plasma Physics, Milano, Italy  
- University of Milano Bicocca, Milano, Italy

## **PURPOSE**

The workshop is intended as a forum to discuss the latest experimental, theoretical and computational results related to the interaction of high energy radiation with matter. High energy is intended to mean soft x-ray and beyond, but important new results from visible systems will be incorporated. The workshop will be interdisciplinary amongst scientists from many fields, including: plasma physics; x-ray physics and optics; solid state physics and material science; biology; quantum optics.

Topics will include, among other subjects:

understanding damage thresholds for x-ray interactions with matter  
developing ~ 5 keV x-ray sources to investigate damage,  
developing ~ 100 keV Thomson sources for material studies,  
developing short pulse (100 fs and less) x-ray diagnostics,  
developing novel X-ray optics  
developing models for the response of biological samples to ultra  
intense, sub ps x-rays high-energy radiation

## **DIRECTORS**

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## **SCIENTIFIC COMMITTEE**

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