

X-Ray Optics: A Roadmap for the Next 10 Years
 A one-day (August 1, 2005) Workshop at SPIE's Optics & Photonics 2005
 San Diego, California USA

Workshop Theme: New X-ray Optics that Have to Be Invented

Chairs: Ice, Ishikawa, Khounsary, Padmore, Shen

Topic	Speaker	Affiliation
Session 1 8:30-10 Chair: G. Ice		
Maskless patterning	Enzo Di Fabrizio	Elettra, Trieste, Italy
Possible Future Applications of X-ray Fabry-Perot Resonator for X-ray Optics	Shih-Lin Chang	Natl. Tsing Hua Univ, Taiwan
Prospects for ultra-high resolution monochromators	Thomas Toellner	APS, ANL, US
Session 2: 10:30-12:30: Chair: K. Yamauchi		
Prospects and limitation for achromatic hard x-ray focusing	G. Ice	ORNL, US
An strategy to fabricate KB mirrors for 10 nm hard X-rays focusing	Kazuto Yamauchi	Osaka U., Japan
Diffractive Optics for X-ray Focusing: Volume Diffraction and the Spatial Resolution Limit	Joerg Maser	APS, US
Kinoform optics and theoretical limit to hard x-ray focusing	Kenneth Evans-Lutterodt	NSLS, US
Session 3: 2:00-3:30: chair: H. Padmore		
Wavefields: Manipulation and characterisation	Keith Nugent	U. Melbourne, Australia
Pulse Compression Optics for Storage Rings and XFELs	Sarvjit Shastri	APS, ANL, US
Ultrafast dispersive x-ray spectroscopy	Phil Heimann	LBL, US
Session 4: 4:00-6:00: Chair: A. Khounsary		
Optics for X-ray micro- and nano-tomography	Felix Beckmann	GKSS-Research Center, c/o GKSS at DESY
Diamond and the future x-ray optics developments	J. Härtwig	ESRF, France
Multilayer Artificial Structures for Hard and Soft X-Ray Optics	Yuriy Plantonov	Osmic, US
Summary & Discussion	All	