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radiation in a table-top  
setup has become one of  
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well as for nano-scale ...

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extreme ultraviolet

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radiation around the  
water window region  
( $\lambda = 4.4$  nm) is generated  
by using an infrared  
driving pulses at 1400  
nm, with energy 2.5 mJ  
and duration 40 fs in a  
semi-infinite helium gas  
cell.

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ultraviolet euv radiation  
using high harmonic  
generation hhg in quartz  
is demonstrated from 10  
to 200 khz using 50 fs  
laser pulses at the center  
wavelength of 1030 nm  
the euv radiation extends  
beyond 25 ev in the  
nondamaging regime  
generation and

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Le and Lap Van Dao.  
Abstract. High harmonic  
generation featuring ultra-  
short pulses, short  
wavelengths and highly

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coherent radiation in a  
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tools for studies of  
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dynamics as ...

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coherent extreme  
ultraviolet euv radiation  
using high harmonic  
generation hhg in quartz  
is demonstrated from 10  
to 200 khz using 50 fs  
laser pulses at the center  
wavelength of 1030 nm  
the euv radiation extends  
beyond 25 ev in the  
nondamaging regime  
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### And Application

#### Of Coherent

##### Extreme Ultraviolet ...

Generation and application of coherent radiation at Lyman-alpha

Welge, K. H.; Zacharias, H. Abstract. Narrow bandwidth tunable Lyman-alpha light has been used to excite an atomic beam of hydrogen. A resolution of 700 MHz in the VUV



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Ultraviolet  
Radiation  
was achieved. Also, a  
double resonance  
experiment to excite high  
Rydberg states in H  
atoms is described. ...

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application of coherent  
radiation at Lyman ...  
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extreme ultraviolet  
radiation Sep 05, 2020  
Posted By Zane Grey

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ultraviolet radiation in a  
transient grating  
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radiation will allow the  
creation of tunable ghz

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Extreme Ultraviolet...

The 9th Asian Workshop  
on Generation and

Application of Coherent  
XUV and X-ray

Radiation (9th AWCXR)  
will be held from

October 16 to October  
17, 2018 at Frontier

Research in Applied  
Sciences Building,

Hokkaido University,  
Sapporo, Japan. Brief

Information

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Announcement

Of Coherent  
Riken - October 16 - 17,  
2018  
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application of small  
bandwidth coherent  
extreme ultraviolet . By L.  
V. Dao. Abstract.

Coherent extreme  
ultraviolet radiation can  
be produced by high-  
order harmonic  
generation of energetic  
femtosecond laser pulses  
in noble gases. Using 800  
nm driving pulses and  
argon gas, the energy  
conversion efficiency is

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Radiation  
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Radiation (7th AWCXR)

will be held from August  
30 to September 1, 2015

at the Center for

Relativistic Laser Science

# Bookmark File PDF Generation of Institute for Basic Science, located at the Gwangju Institute of Science and Technology (GIST) campus, in Gwangju, Korea.

High harmonic  
generation featuring ultra-  
short pulses, short  
wavelengths and highly  
coherent radiation in a

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table-top setup has become one of the most versatile and affordable tools for studies of atomic and molecular dynamics as well as for nano-scale coherent diffractive imaging. In this book, we show the background and technical aspects of the generation and enhancement of high order harmonic



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radiations down to the water window region (2.3 - 4.4 nm). The source is specifically tailored and developed for imaging applications. By controlling and stabilizing the phase-matching condition in a gas cell, an extreme ultra-violet source which satisfies these requirements has been generated. Using a

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harmonic source with  
wavelengths around 30  
nm, a resolution of 45  
nm for a micrometer-size  
transmission sample has  
been obtained and  
biological-like  
absorption samples are  
also successfully  
reconstructed. A phase  
retrieval algorithm with a  
phase-curvature  
correction is developed  
to take advantage of the

# Bookmark File PDF Generation higher photon flux when placing the sample near the focus point. Extreme Ultraviolet Radiation

Results of the NATO  
Advanced Research  
Workshop on Middle  
Infrared Coherent  
Sources (MICS) 2005,  
Barcelona, Spain, 6-11

# Bookmark File PDF Generation November 2005. And Application Of Coherent Extreme

This book gives a thorough treatment of the rapidly-expanding field of coherent x-ray optics, which has recently experienced something of a renaissance with the availability of third-generation synchrotron sources. It is the first

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book of its kind. The author begins with a treatment of the fundamentals of x-ray diffraction for both coherent and partially coherent radiation, together with the interactions of x-rays with matter. X-ray sources, optics elements and detectors are then discussed, with an emphasis on their role in

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coherent x-ray optics.

Various facets of coherent x-ray imaging are then discussed, including holography, interferometry, self imaging, phase contrast and phase retrieval.

Lastly, the foundations of the new field of singular x-ray optics are examined.

Most topics are developed from first principles, with

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numerous references given to the contemporary research literature. This book will be useful to x-ray physicists and students, together with optical physicists and engineers who wish to learn more about the fascinating subject of coherent x-ray optics.

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Extreme ultraviolet radiation, also referred to as soft X-rays or XUV, offers very special optical properties. The X-UV refractive index of matter is such that normal reflection cannot take place on polished surfaces whereas beam transmission through one micrometer of almost all materials reduces to zero.



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Therefore, it has long been a difficult task to imagine and to implement devices designed for complex optics experiments in this wavelength range.

Thanks to new sources of coherent radiation - XUV-lasers and High Order Harmonics - the use of XUV radiation, for interferometry, holography, diffractive

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optics, non-linear  
radiation-matter  
interaction, time-  
resolved study of fast and  
ultrafast phenomena and  
many other applications,  
including medical  
sciences, is ubiquitous.

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