

## Wavefront sensing in the X-EUV

### **“Single-shot extreme-ultraviolet wavefront measurements of high-order harmonics”**

*H. Dacasa, H. Coudert-Alteirac, C. Guo, E. Kueny, F. Campi, J. Lahl, J. Peschel, H. Wikmark, B. Major, E. Malm, D. Alj, K. Varjú, C. L. Arnold, G. Dovillaire, P. Johnsson, A. L’Huillier, S. Maclot, P. Rudawski, and P. Zeitoun*

Optics Express 27, 3, 2656 (2019)

<https://doi.org/10.1364/OE.27.002656>

### **“Non-contact XUV metrology of Ru/B<sub>4</sub>C multilayer optics by means of Hartmann wavefront analysis”**

*M. Ruiz-Lopez, H. Dacasa, B. Mahieu, M. Lozano, L. Li, P. Zeitoun, and D. Bleiner*

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### **“Developments of EUV/X-ray wavefront sensors and adaptive optics at Imagine Optic”**

*O. de La Rochefoucault, S. Bucourt, D. Cocco, G. Dovillaire, F. Harms, M. Idir, D. Korn, X. Levecq, A. Marmin, L. Nicolas, M. Piponnier, L. Raimondi, P. Zeitoun*

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### **“Advances in X-Ray optics : From metrology characterization to wavefront sensing-based optimization of active optics”**

*D.Cocco, M. Idir, D. Morton, L. Raimondi, M. Zangrando*

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*F. Sanson, A. K. Pandey, F. Harms, G. Dovillaire, E. Baynard, J. Demailly, O. Guilbaud, B. Lucas, O. Neveu, M. Pittman, D. Ros, M. Richardson, E. Johnson, W. Li, Ph. Balcou, and S. Kazamias*

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**“Micro-focusing of broadband high-order harmonic radiation by a double toroidal mirror”**

*H. Coudert-Alteirac, H. Dacasa, F. Campi, E. Kueny, B. Farkas, F. Brunner, S. Maclot, B. Manschwetus, H. Wikmark, J Lahl, L. Rading, J. Pesche , B. Major , K. Varjú, G. Dovillaire , P. Zeitoun, P. Johnsson, A. L’Huillier and P. Rudawski*

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**“Optimization and characterization of high-harmonic generation for probing solid density plasmas”**

*J. C. P. Koliyadu, S. Künzel, T. Wodzinski, B. Keitel, J. Duarte, G.O. Williams, C. P. João, H. Pires, V. Hariton, M. Galletti, N. Gomes, G. Figueira, J. Mendanha Dias, N. Lope, P. Zeitoun, E. Plönjes and M. Fajardo*

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*D. Gauthier, P. Rebernik Ribic, G. Adhikary, A. Camper, C. Chappuis, R. Cucini, L.F. DiMauro, G. Dovillaire, F. Frassetto, R. Géneaux, P. Miotti, L. Poletto, B. Resse, C. Spezzan, M. Stupar, T. Ruchon and G. De Ninno*

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*S. Künzel, G. O. Williams, W. Boutu, E. Galtier, B. Barbrel, H. J. Lee, B. Nagler, U. Zastra, G. Dovillaire, R. W. Lee, H. Merdji, Ph. Zeitoun and M. Fajardo*

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*L.Raimondi, C. Svetina, N. Mahne, D. Cocco, A. Abrami, M. De Marco, C. Fava, S. Gerusina, R. Gobessi, F. Capotondi, E. Pedersoli, M. Kiskinova, G. De Ninno, P. Zeitou, G. Dovillaire, G. Lambert, W.Boutu, H. Merdji, A. I. Gonzalez, D.Gauthier and M. Zangrando*  
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## **X-ray mirror metrology with the HASO**

**“A 2 D high accuracy slope measuring system based on a stitching Shack Hartmann optical head”**

*M. Idir, K. Kaznatcheev, G. Dovillaire, J. Legrand, and R. Rungsawang*

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*M. Idir, G. Dovillaire and P. Mercere*

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## **ILAO for X-ray source**

### **"Efficient picosecond x-ray pulse generation from plasmas in the radiation dominated regime"**

*R. Hollinger, C. Bargsten, V. Shlyaptsez, V. Kaymak, A. Pukhov, M. G. Capeluto, S. Wang, A. Rockwood, Y. Wang, A. Townsend, A. Prieto, P. Stockton, A. Curtis, J. J. Rocca*

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*P. Favier, L. Amoudry, K. Cassou, K. Dupraz, A. Martens, H. Monard and F. Zomer*

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