

## Optical metrology with the HASO

### **“Development of DKIST IT&C Shack-Hartmann wavefront measurement system”**

*Chen Liang; Predrag Sekulic; Kerry Gonzales; Pierre Aka; Simon C. Craig*

Proc. SPIE, Volume 10700, Ground-based and Airborne Telescopes VII; 107001R (2018)

<https://doi.org/10.1117/12.2312832>

### **“Membrane mirror evaluation of APERTURE: a precise extremely large reflective telescope using re-configurable elements”**

*Turgut B. Baturalp; Victoria L. Coverstone; Rocco Coppejans; Jian Cao; YipWah Chung; David B. Buchholz; M. P. Ulmer*

Proc. SPIE, Volume 10698, Space Telescopes and Instrumentation (2018)

<https://doi.org/10.1117/12.2309826>

### **“Characterization of ALPAO deformable mirrors for the NAOMI VLT Auxiliary Telescopes adaptive optics”**

*Jean-Baptiste Le Bouquin; Jean-Philippe Berger; Jean-Luc Beuzit; Eric Cottalorda; Alain Delboulbe; Sebastien E. Egner; Frederic Yves Joseph Gonté; Sylvain Guieu; Pierre Haguénauer; Laurent Jocou; Yves Magnard; Thibaut Moulin; Sylvain Rochat; Christophe Vérinaud; Julien Woillez*

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### **“Weighted spline-based integration for reconstruction of freeform wavefront”**

*K. K. Pant, D. R. Burada, M. Bichra, A. Ghosh, G. S. Khan, S. Sinzinger and C. Shakher*

Applied Optics, 57, 5 (2018)

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### **“Optical camera with liquid crystal autofocus lens”**

*T. Galstian, O. Sova, K. Asatryan, V. Presniakov, A. Zohrabyan, and M. Evensen*

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### **“Manufacturing Large Spherical and Cylindrical Laser Focusing Gratings by Scanning Beam Interference Lithography”**

*T. Erdogan, S.A. Johnson, J.L. Keller, C.M. Smith, P.E. Glenn, and D.J. Smith*

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**“The 384-channel prototype of DM Electronics for ELT AO systems”**

*K. Caputa, J. Atwood, G. Herriot, J.-P. Veran, P. Spanò and A. Zielinski*

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**“Thermal expansion properties of thin multilayer films”**

*X. Cheng, C. Morawe, J.-C. Peffen and L. Zhang*

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**“Optimal lens design and use in laser-scanning microscopy”**

*A. Negrean and H. D. Mansvelder*

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**“Large-aperture active optical carbon fiber reinforced polymer mirror”**

*M. E. L. Jungwirth, C. C. Wilcox, D. V. Wick, M. S. Baker, C. G. Hobart, J. J. Milinazzo, J. Robichaud, R. C. Romeo, R. N. Martin, J. Ballesta, E. Lavergne and E. L. Dereniak*

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**“The optical alignment of the two GAIA three mirror anastigmatic telescopes”**

*M. Erdmann and D. Pierot*

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**“Precise wavefront correction with an unbalanced nulling interferometer for exo-planet imaging coronagraphs”**

*J. Nishikawa, L. Abe, N. Murakami and T. Kotani*

Astron. Astrophys., Vol. 489, 1389 (2008)

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*D. Brousseau, E. F. Borra and S. Thibault*

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*G. Montagnier, T. Fusco, J.-L. Beuzit, D. Mouillet, J. Charton and L. Jocou*

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**“Chemical Mechanical Planarization (CMP) Metrology for 45/32nm Technology Generations”**

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**“Extreme adaptive optics system optimization with the High Order Test bench”**

*E. Vernet, M. Kasper, C. Véronaud, E. Fedrigo, S. Tordo, N. Hubin, S. Esposito, E. Pinna, A. Puglisi, A. Tozzi, A. G. Basden, S. J. Goodsell, G. D. Love and R. M. Myers.*

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*S. Kitamoto, N. Yamamoto, T. Kohmura, K. Suga, H. Sekiguchi, J. Sato, K. Sudo, T. Watanabe, Y. Ohkubo, A. Sekiguchi and M. Tsujimoto.*

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# Laser beam analysis with the HASO

## **“Wavefront analysis of white-light supercontinuum”**

*Emma Kueny, Joachim Meier, Xavier Levecq, Nadezda Varkentina, Franz X. Kärtner, and Anne-Laure Calendron*

Optics Express 26, 31299 (2018)

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*T. Imran and M. Hussain*

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## **“Active control of laser wavefronts in atom interferometers”**

*A. Trimeche, M. Langlois, S. Merlet and F. Pereira Dos Santos*

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## **“Resonance spiking by periodic loss in the double-sided liquid cooling disk oscillator”**

*R. Nie, J. She, D. Li, F. Li and B. Peng*

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## **“Adaptive free-space optical communications through turbulence using self-healing Bessel beams”**

*S. Li and J. Wang*

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*Anthony R Valenzuela*

ARL-TR-7868 (2016)

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## **“Single-Atom Trapping in Holographic 2D Arrays of Microtraps with Arbitrary Geometries”**

*F. Nogrette, H. Labuhn, S. Ravets, D. Barredo, L. Béguin, A. Vernier, T. Lahaye and A. Browaeys*

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*Y. Ren, H. Huang, G. Xie, C. Bao, L. Li, N. Ahmed, Y. Yan, M. Willner, M. P. J. Lavery, M. Tur, M. Neifeld, S. J. Dolinar, M. J. Padgett, R. W. Boyd, J. H. Shapiro and A. E. Willner*

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*A. Leray, K. Lillis and J. Mertz*

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*N. Ohmae, K. Takeno, S. Moriwaki and N. Mio*

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*T. Watanabe, M. Fujii, Y. Watanabe, N. Toyama and Y. Iketaki*

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