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A. H. Bouchez, Giant Magellan Telescope Organization Corp. (United States); D. S. Acton, Ball Aerospace & Technologies Corp. (United States); G. Agapito, C. Arcidiacono, INAF - Osservatorio Astrofisico di Arcetri (Italy); F. Bennet, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); V. Biliotti, M. Bonaglia, R. Briguglio, INAF - Osservatorio Astrofisico di Arcetri (Italy); G. Brusa-Zappellini, Steward Observatory, The Univ. of Arizona (United States); L. Busoni, L. Carbonaro, INAF - Osservatorio Astrofisico di Arcetri (Italy); J. L. Codona, Steward Observatory, The Univ. of Arizona (United States); R. Conan, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); T. Connors, O. Durney, Steward Observatory, The Univ. of Arizona (United States); B. Espeland, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); S. Esposito, L. Fini, INAF - Osservatorio Astrofisico di Arcetri (Italy); R. Gardhouse, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); T. M. Gauron, Smithsonian Astrophysical Observatory (United States); M. Hart, P. M. Hinz, Steward Observatory, The Univ. of Arizona (United States); S. Kanneganti, Smithsonian Astrophysical Observatory (United States); E. J. Kibblewhite, The Univ. of Chicago (United States); R. P. Knox, Steward Observatory, The Univ. of Arizona (United States); B. A. McLeod, Smithsonian Astrophysical Observatory (United States); T. McMahon, M. Montoya, Steward Observatory, The Univ. of Arizona (United States); T. J. Norton, M. P. Ordway, Smithsonian Astrophysical Observatory (United States); C. d'Orgeville, S. Parcell, P. K. Piatrou, Research School of Astronomy and Astrophysics, The
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E. Diolaiti, INAF - Osservatorio Astronomico di Bologna (Italy); L. Schreiber, INAF - Osservatorio Astronomico di Padova (Italy); I. Foppiani, M. Lombini, INAF - Osservatorio Astronomico di Bologna (Italy)

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A. Arya, Mississippi State Univ. (United States); A. Papadopoulos, Aristotle Univ. of Thessaloniki (Greece); A. N. Ramaprakash, Inter-Univ. Ctr. for Astronomy and Astrophysics (India); R. G. Dekany, Caltech Optical Observatories (United States)

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M. Shirahata, Institute of Space and Astronomical Science (Japan); Y. Minowa, S. Oya, Y. Hayano, Subaru Telescope, National Astronomical Observatory of Japan (United States);
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K. Boutsia, Large Binocular Telescope Observatory (United States) and INAF-Roma (Italy);
L. Fini, J. Argomedo, INAF - Osservatorio Astrofisico di Arcetri (Italy); C. Biddick, Large Binocular Telescope Observatory (United States); G. Agapito, C. Arcidiacono, R. Briguglio, INAF - Osservatorio Astrofisico di Arcetri (Italy); G. Brusa, Large Binocular Telescope Observatory (United States); L. Busoni, S. Esposito, INAF - Osservatorio Astrofisico di Arcetri (Italy); J. Hill, Large Binocular Telescope Observatory (United States); C. Kulesa, D. McCarthy, Steward Observatory, The Univ. of Arizona (United States); E. Pinna, A. T. Puglisi, F. Quiros-Pacheco, A. Riccardi, M. Xompero, INAF - Osservatorio Astrofisico di Arcetri (Italy)
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D. R. Andersen, NRC Herzberg Institute of Astrophysics (Canada); C. Bradley, O. Lardière, C. Blain, Univ. of Victoria (Canada); C. Correia, NRC Herzberg Institute of Astrophysics (Canada); R. Desmarais, D. Gammelth, M. Ito, K. Jackson, P. Lach, R. Nash, L. Pham, Univ. of Victoria (Canada); J.-P. Véran, NRC Herzberg Institute of Astrophysics (Canada);

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Adaptive optical system based on deformable secondary mirror on 1.8-meter telescope [8447-126]
C. Rao, A. Zhang, Institute of Optics and Electronics (China); X. Fan, Y. Guo, Institute of Optics and Electronics (China) and Graduate Univ. of the Chinese Academy of Sciences (China); K. Wei, C. Guan, X. Zhang, Institute of Optics and Electronics (China); C. Li, Institute of Optics and Electronics (China) and Graduate Univ. of the Chinese Academy of Sciences (China); L. Zhou, S. Chen, H. Xian, W. Ma, Y. Cheng, H. Zhou, Y. Zhang, Institute of Optics and Electronics (China)

Adaptive optics for the CHARA array [8447-127]
T. A. ten Brummelaar, L. Sturmann, J. Sturmann, The CHARA Array of Georgia State Univ. (United States); S. T. Ridgway, National Optical Astronomy Observatory (United States); J. D. Monnier, Univ. of Michigan (United States); M. J. Ireland, Macquarie Univ. (Australia) and Australian Astronomical Observatory (Australia); X. Che, Univ. of Michigan (United States); H. A. McAlister, N. H. Turner, CHARA Georgia State Univ. (United States); P. G. Tuthill, Australian Astronomical Observatory (Australia)

The 2012 status of the MCAO testbed for the GREGOR solar telescope [8447-128]
D. Schmidt, T. Berkefeld, F. Heidecke, Kiepenheuer-Institut für Sonnenphysik (Germany)

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D. Ren, California State Univ. (United States) and Nanjing Institute of Astronomical Optics & Technology (China); X. Zhang, Nanjing Institute of Astronomical Optics & Technology (China) and Graduate School of the Chinese Academy of Sciences (China); M. Penn, National Solar Observatory (United States); H. Wang, New Jersey Institute of Technology (United States); J. Dou, Y. Zhu, Nanjing Institute of Astronomical Optics & Technology (China); L. Rong, X. Wang, Nanjing Institute of Astronomical Optics & Technology (China) and Graduate School of the Chinese Academy of Sciences (China)

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Designing the METIS adaptive optics system [8447-131]
R. Stuijk, Leiden Observatory (Netherlands) and NOVA/ASTRON (Netherlands); S. Hippler, Max-Planck-Institut für Astronomie (Germany); A. Stolte, Argelander Institut für Astronomie, Univ. Bonn (Germany); B. Brandl, Leiden Observatory (Netherlands); F. Molster, NOVA (Netherlands); L. Venema, NOVA/ASTRON (Netherlands); R. Lenzen, Max-Planck-Institut für Astronomie (Germany); E. Pantin, CE Saclay DSM/IRFU/SAP (France); J. Blommaert, Katholieke Univ. Leuven (Belgium); A. Glasse, UK Astronomy Technology Ctr. (United Kingdom); M. Meyer, Institute of Astronomy, ETH Zürich (Switzerland)
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Toward an on-sky ELT-scale sodium LGS wavefront sensing experiment [8447-133]
D. Gratadour, G. Rousset, É. Gendron, O. Fauvarque, LESIA - Observatoire de Paris, CNRS, Univ. Paris Diderot, UPMC (France); D. Bonaccini Calia, T. Pfrommer, European Southern Observatory (Germany); R. M. Myers, T. J. Morris, Durham Univ. (United Kingdom)

Optical calibration and testing of the E-ELT M4 adaptive mirror [8447-134]
P. Spanò, INAF - Osservatorio Astronomico di Brera (Italy) and NRC Herzberg Institute of Astrophysics (Canada); A. Bianco, INAF - Osservatorio Astronomico di Brera (Italy); R. Briguglio, INAF - Osservatorio Astrofisico di Arcetri (Italy); M. Cecconi, Fundacion Galileo Galilei - INAF (Spain); L. Miglietta, INAF - Osservatorio Astrofisico di Arcetri (Italy); E. Molinari, Fundacion Galileo Galilei - INAF (Spain); G. Pariani, INAF - Osservatorio Astrofisico di Brera (Italy); A. Riccardi, INAF - Osservatorio Astrofisico di Arcetri (Italy); M. Riva, D. Tresoldi, INAF - Osservatorio Astronomico di Brera (Italy); M. Xompero, INAF - Osservatorio Astrofisico di Brera (Italy)

The Giant Magellan Telescope laser tomography adaptive optics system [8447-135]
R. Conan, F. Bennet, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); A. H. Bouchez, Giant Magellan Telescope Organization Corp. (United States); M. A. van Dam, Flat Wavefronts (New Zealand); B. Espeland, W. Gardhouse, C. d’Orgeville, S. Parcell, P. Piatrou, I. Price, F. Rigaut, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); G. Trancho, Giant Magellan Telescope Organization Corp. (United States); K. Uhlendorf, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia)

Optical designs of the LGS WFS system for GMT-LTAO [8447-136]
M. Wang, Institut National d’Optique (Canada); K. Uhlendorf, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); D. Jones, Prime Optics (Australia); P. Côté, F. Châteauneuf, J. Gauvin, Institut National d’Optique (Canada); R. Conan, B. Espeland, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia)

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P. M. Hinz, G. Brusa, V. Vaitheeswaran, T. McMahon, T. Connors, R. Knox, Steward Observatory, The Univ. of Arizona (United States); A. Bouchez, Giant Magellan Telescope Organization Corp. (United States); M. Montoya, Steward Observatory, The Univ. of Arizona (United States)

The Giant Magellan Telescope phasing system [8447-138]
A. H. Bouchez, Giant Magellan Telescope Organization Corp. (United States); B. A. McLeod, Smithsonian Astrophysical Observatory (United States); D. S. Acton, Ball Aerospace & Technologies Corp. (United States); S. Kanneganti, Smithsonian Astrophysical Observatory (United States); E. J. Kibblewhite, The Univ. of Chicago (United States); S. A. Shectman, Carnegie Observatories (United States); M. A. van Dam, Flat Wavefronts (New Zealand)

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J. Pazder, NRC Herzberg Institute of Astrophysics (Canada)
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S. Oya, Subaru Telescope, National Astronomical Observatory of Japan (United States); M. Akiyama, Astronomical Institute, Tohoku Univ. (Japan); Y. Hayano, Y. Minowa, I. Iwata, H. Terada, T. Usuda, Subaru Telescope, National Astronomical Observatory of Japan (United States); H. Takami, National Astronomical Observatory of Japan (Japan); T. Nishimura, T. Kodama, N. Takato, D. Tomono, Subaru Telescope, National Astronomical Observatory of Japan (United States); Y. Ono, Astronomical Institute, Tohoku Univ. (Japan)

Dimensioning and performances of an AO system for the SALT

L. Catala, South African Astronomical Observatory (South Africa) and Univ. of Cape Town (South Africa); M. Carbillet, Lab. Lagrange, Univ. de Nice Sophia Antipolis, CNRS, Observatoire de la Côte d'Azur (France); L. Jolissaint, aquilAOptics (Switzerland); D. A. H. Buckley, S. M. Crawford, T. Pickering, South African Astronomical Observatory (South Africa)

System analysis and characterization of the FFREE bench

O. Preis, C. Vérinaud, Institut de Planétologie et d'Astrophysique de Grenoble (France); J. Antichi, INAF - Osservatorio Astronomico di Padova (Italy) N. Ventura, Institut de Planétologie et d'Astrophysique de Grenoble (France);

Holographic combination of low-resolution Shack-Hartmann sensor and holography-based modal Zernike wavefront sensor

S. Dong, T. Haist, W. Osten, T. Ruppel, O. Sawodny, Univ. Stuttgart (Germany)

Woofer-tweeter adaptive optics in very strong turbulence using a magnetic-liquid deformable mirror

D. Brousseau, COPL, Laval Univ. (Canada); J.-P. Véran, NRC Herzberg Institute of Astrophysics (Canada); S. Thibault, E. F. Borra, S. F.-Boivin, COPL, Laval Univ. (Canada)

Tomographic reconstructor for multi-object adaptive optics using artificial neural networks

D. Guzman, Pontificia Univ. Católica de Chile (Chile); A. T. Mello, Pontificia Univ. Católica de Chile (Chile) and Univ. Federal de Santa Catarina (Brazil); J. Osborn, Pontificia Univ. Católica de Chile (Chile); F. J. De Cos, M. Gómez, Univ. de Oviedo (Spain); T. Butterley, Durham Univ. (United Kingdom); N. David, Pontificia Univ. Católica de Chile (Chile); N. Roqueñi, Univ. de Oviedo (Spain); R. M. Myers, Durham Univ. (United Kingdom); A. Guesalaga, M. Salas, Pontificia Univ. Católica de Chile (Chile)

Image based deformable mirror control for adaptive optics in satellite telescope

N. Miyamura, The Univ. of Tokyo (Japan)

Laboratory demonstration of real time frame selection with Magellan AO

J. R. Males, L. M. Close, D. Kopon, Steward Observatory, The Univ. of Arizona (United States); F. Quiros-Pacheco, A. Riccardi, M. Xompero, A. Puglisi, INAF - Osservatorio Astrofisico di Arcetri (Italy); V. Gasho, K. M. Morzinski, K. B. Follette, Steward Observatory, The Univ. of Arizona (United States)

Residual tip-tilt motion of LGS in monostatic scheme

L. A. Bolbasova, V.E. Zuev Institute of Atmospheric Optics (Russian Federation) and Tomsk State Univ. (Russian Federation); V. P. Lukin, V. V. Nosov, V.E. Zuev Institute of Atmospheric Optics (Russian Federation)
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F. Bennet, R. Conan, C. D’Orgeville, Research School of Astronomy and Astrophysics, The
Australian National Univ. (Australia); M. Dawson, EOS Space Systems (Australia); N. Paulin,
I. Price, F. Rigaut, Research School of Astronomy and Astrophysics, The Australian National
Univ. (Australia); I. Ritchie, C. Smith, EOS Space Systems (Australia); K. Uhlendorf, Research
School of Astronomy and Astrophysics, The Australian National Univ. (Australia)

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L. F. Rodríguez-Ramos, I. Montilla, Instituto de Astrofísica de Canarias (Spain);
J. J. Fernández-Valdivia, J. L. Trujillo-Sevilla, J. M. Rodríguez-Ramos, Univ. de La Laguna
(Spain)

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C. Rao, L. Zhu, N. Gu, X. Rao, Institute of Optics and Electronics (China); L. Zhang, Institute
of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences
(China); C. Guan, D. Chen, S. Chen, C. Wang, Institute of Optics and Electronics (China);
J. Lin, Z. Liu, Yunnan Astronomical Observatory (China)

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J. P. O’Neal, F. Y. J. Gonte, European Southern Observatory (Chile)

Image quality analyzer [8447-158]
V. P. Lukin, N. N. Botugina, O. N. Emaleev, L. V. Antoshkin, P. A. Konyaev, V.E. Zuev Institute
of Atmospheric Optics (Russian Federation)

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N. Miura, J. Miyazaki, S. Kuwamura, Kitami Institute of Technology (Japan); N. Baba,
Hokkaido Univ. (Japan); Y. Hanaoka, National Astronomical Observatory of Japan
(Japan); M. Yamaguchi, S. Ueno, Y. Nakatani, S. Nagata, R. Kitai, K. Ichimoto, Kyoto Univ.
(Japan); H. Takami, Subaru Telescope, National Astronomical Observatory of Japan
(United States)

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R. Briguglio, M. Xompero, A. Riccardi, INAF - Osservatorio Astrofisico di Arcetri (Italy); R. Blasi,
M. Andrighettioni, MICROGATE srl (Italy)

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J. Mastromarino, O. Martin, D. Medeiros, D. Morrison, C. Neyman, S. Panteleev, T. Stalcup,
P. Tucker, E. Wetherell, W. M. Keck Observatory (United States); M. van Dam, Flat
Wavefronts (New Zealand)
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A. Tokovinin, R. Tighe, P. Schurter, R. Cantarutti, N. van der Bliek, M. Martinez, E. Mondaca, S. Heathcote, Cerro Tololo Inter-American Observatory (Chile)

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C. Loose, S. Rabien, L. Barl, Max-Planck-Institut für extraterrestrische Physik (Germany); J. Borelli, Max-Planck-Institut für Astronomie (Germany); M. Deysenroth, Max-Planck-Institut für extraterrestrische Physik (Germany); W. Gaessler, Max-Planck-Institut für Astronomie (Germany); H. Gemperlein, M. Honsberg, Max-Planck-Institut für extraterrestrische Physik (Germany); M. Kulas, Max-Planck-Institut für Astronomie (Germany); R. Lederer, W. Raab, Max-Planck-Institut für extraterrestrische Physik (Germany); G. Rahmer, Large Binocular Telescope (United States); J. Ziegleder, Max-Planck-Institut für extraterrestrische Physik (Germany)

Vibration control for the ARGOS laser launch path [8447-168]
D. Peter, W. Gässler, J. Borelli, Max-Planck-Institut für Astronomie (Germany); L. Barl, S. Rabien, Max-Planck-Institut für extraterrestrische Physik (Germany)

A sodium guide star adaptive optics system for the 1.8 meter telescope [8447-169]
K. Wei, C. Rao, Institute of Optics and Electronics (China); Y. Bo, Technical Institute of Physics and Chemistry (China); C. Li, M. Li, X. Zhang, A. Zhang, C. Guan, L. Zhou, S. Chen, X. Hao, W. Ma, Y. Zhang, Institute of Optics and Electronics (China)

Investigations of long pulse sodium laser guide stars [8447-170]
R. Rampy, D. Gavel, Univ. of California, Santa Cruz (United States); S. Rochester, Rochester Scientific LLC (United States); R. Holzlöhner, European Southern Observatory (Germany)

Improving stability, robustness, and performance of laser systems [8447-171]
A. Guesalaga, Univ. Católica de Chile (Chile); B. Neichel, M. Boccas, C. D'Orgeville, F. Rigaut, Gemini Observatory Southern Operations Ctr. (Chile); D. Guzman, Univ. Católica de Chile (Chile); J. Anguita, Univ. de Los Andes (Chile)

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R. Henselmann, D. Nijkerk, M. Lemmen, N. Rijnveld, F. Kamphues, TNO (Netherlands)

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M. Lombini, I. Foppiani, INAF - Osservatorio Astronomico di Bologna (Italy); L. Schreiber, INAF - Osservatorio Astronomico di Padova (Italy); E. Diolaiti, G. Bregoli, INAF - Osservatorio Astronomico di Bologna (Italy); G. Cosentino, Univ. degli Studi di Bologna (Italy)

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S. Rabien, J. Ziegleder, Max-Planck-Institut für extraterrestrische Physik (Germany)

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B. Neichel, Gemini Observatory (Chile); F. Rigaut, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); A. Serio, G. Arriagada, M. Boccas, Gemini Observatory (Chile); C. d'Orgeville, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); V. Fesquet, C. Trujillo, W. N. Rambold, R. L. Galvez, G. Gausachs, T. B. Vucina, V. Montes, C. Urrutia, C. Moreno, S. J. Diggs, C. Araya, J. Lührs, Gemini Observatory (Chile); G. Trancho, M. Bec, Giant Magellan
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P. J. Stomski, Jr., W. M. Keck Observatory (United States); T. W. Murphy, Univ. of California, San Diego (United States); R. Campbell, W. M. Keck Observatory (United States)

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D. Summers, W. M. Keck Observatory (United States); Abrams, J. Skvarč, Isaac Newton Group of Telescopes (Spain); P. Amico, H. Kuntschner, European Southern Observatory (Germany)

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J.-U. Pott, M. Kürster, J. Trowitzsch, J. Borelli, R.-R. Rohloff, T. Herbst, Max-Planck-Institut für Astronomie (Germany); M. Böhm, A. Keck, Max-Planck-Institut für Astronomie (Germany) and Univ. Stuttgart (Germany); T. Ruppel, O. Sawodny, Univ. Stuttgart (Germany)

Development of new concepts to minimize the impact of fast telescope vibrations seen by the E-ELT/MICADO wavefront sensors [8447-181]
A. Keck, Univ. Stuttgart (Germany); J.-U. Pott, Max-Planck-Institut für Astronomie (Germany); T. Ruppel, O. Sawodny, Univ. Stuttgart (Germany)

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J. Farinato, R. Ragazzoni, D. Magrin, V. Viotto, INAF - Osservatorio Astronomico di Padova (Italy); M. Bergomi, INAF - Osservatorio Astronomico di Padova (Italy) and Univ. degli Studi di Padova (Italy); A. Brunelli, M. Dima, INAF - Osservatorio Astronomico di Padova (Italy); L. Marafatto, Univ. degli Studi di Padova (Italy)

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A. P. Reeves, R. M. Myers, T. J. Morris, A. G. Basden, N. A. Bharmal, S. Rolt, D. G. Bramall, N. A. Dipper, E. J. Younger, Durham Univ. (United Kingdom)

Toward an experimental validation of new AO concepts for future E-ELT instrumentation [8447-184]
K. El Hadi, Aix-Marseille Univ., CNRS, Lab. d’Astrophysique de Marseille (France); T. Fusco, ONERA (France) and Aix-Marseille Univ., CNRS, Lab. d’Astrophysique de Marseille (France); B. Le Roux, Aix-Marseille Univ., CNRS, Lab. d’Astrophysique de Marseille (France)

The HIA MCAO laboratory bench [8447-185]
J.-P. Véran, E. McWeigh, D. Andersen, C. Correia, G. Herriot, J. Pazder, NRC Herzberg Institute of Astrophysics (Canada)

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G. Orban de Xivry, S. Rabien, Max-Planck-Institut für extraterrestrische Physik (Germany)
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S. Kanneganti, B. A. McLeod, M. P. Ordway, J. B. Roll, Jr., Harvard-Smithsonian Ctr. for Astrophysics (United States); S. A. Shectman, A. H. Bouchez, Giant Magellan Telescope Organization Corp. (United States); J. Codona, Steward Observatory, The Univ. of Arizona (United States); R. Eng, T. M. Gauron, F. Handte, T. J. Norton, P. Streechon, D. Weaver, Harvard-Smithsonian Ctr. for Astrophysics (United States)

Final opto-mechanical design of Raven, a MOAO science demonstrator for Subaru [8447-188]
O. Lardière, R. Nash, J.-P. Markes, Univ. of Victoria (Canada); D. Andersen, NRC Herzberg Institute of Astrophysics (Canada); C. Bradley, C. Blain, R. Desmarais, D. Gamroth, M. Ito, K. Jackson, P. Lach, L. Pham, Univ. of Victoria (Canada)

Design and test results of the calibration unit for the MOAO demonstrator RAVEN [8447-189]
J.-F. Lavigne, ABB Bomem (Canada); F. Lamontagne, G. Anctil, M. Wang, M. Tremblay, INO (Canada); O. Lardière, R. Nash, Univ. of Victoria (Canada); D. Andersen, NRC Herzberg Institute of Astrophysics (Canada); M. Savard, P. Côté, INO (Canada); C. H. Bradley, Univ. of Victoria (Canada); F. Châteauneuf, INO (Canada)

MOAO test bench in Tohoku University [8447-190]
M. Akiyama, Y. Ono, Tohoku Univ. (Japan); S. Oya, Subaru Telescope, National Astronomical Observatory of Japan (United States); K. Hane, T. Wu, Tohoku Univ. (Japan)

Part Four

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V. V. Nosov, P. G. Kovadlo, V. P. Lukin, A. V. Torgaev, V.E. Zuev Institute of Atmospheric Optics (Russian Federation)

Impact of Cn² profile on tomographic reconstruction performance: application to E-ELT wide field AO systems [8447-192]
A. Costille, Institut de Planétologie et d’Astrophysique de Grenoble (France); T. Fusco, ONERA (France)

Accurate measurement of Cn² profile with Shack-Hartmann data [8447-194]
J. Voyez, C. Robert, V. Michau, J.-M. Conan, T. Fusco, ONERA (France)

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E. Masciadri, F. Lascaux, INAF - Osservatorio Astrofisico di Arcetri (Italy)

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F. Lascaux, E. Masciadri, INAF - Osservatorio Astrofisico di Arcetri (Italy)
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M. Le Louarn, R. Clare, European Southern Observatory (Germany); C. Béchet, M. Tallon, CRAL, Observatoire de Lyon (France) |
| 8447 5E | **A study of MOAO behind GLAO for EAGLE** [8447-200]  
A. Basden, N. A. Bharmal, T. Butterley, N. Dipper, T. Morris, R. Myers, A. Reeves, Durham Univ. (United Kingdom) |
| 8447 5F | **Tomographic wavefront error estimation and measurement for Raven, a multi-object adaptive optics demonstrator** [8447-201]  
K. Jackson, Univ. of Victoria Mechanical Engineering (Canada); C. Correia, NRC Herzberg Institute of Astrophysics (Canada); O. Lardière, Univ. of Victoria Mechanical Engineering (Canada); D. Andersen, NRC Herzberg Institute of Astrophysics (Canada); C. Bradley, Univ. of Victoria Mechanical Engineering (Canada) |
| 8447 5G | **GMT AO system requirements and error budgets in the preliminary design phase** [8447-202]  
G. Trancho, Giant Magellan Telescope Organization Corp. (United States); B. Espeland, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); A. Bouchez, Giant Magellan Telescope Organization Corp. (United States); R. Conan, Research School of Astronomy and Astrophysics, The Australian National Univ. (Australia); P. Hinz, Steward Observatory (United States); M. van Dam, Flat Wavefronts (New Zealand) |
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I. Montilla, Instituto de Astrofísica de Canarias (Spain); C. Béchet, Ctr. de Recherche Astronomique de Lyon (France); M. Le Louarn, European Southern Observatory (Germany); M. Tallon, Ctr. de Recherche Astronomique de Lyon (France); J. Sánchez-Capuchino, M. Collados Vera, Instituto de Astrofísica de Canarias (Spain) |
| 8447 5I | **Optimal projection of reconstructed layers onto deformable mirrors with fractal iterative method for AO tomography** [8447-204]  
E. Brunner, Ctr. de Recherche Astrophysique de Lyon, Observatoire de Lyon (France) and Technische Univ. München (Germany); C. Béchet, M. Tallon, Ctr. de Recherche Astrophysique de Lyon, Observatoire de Lyon (France) |
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P. Jia, Nanjing Univ. (China) and Nanjing Institute of Astronomical Optics & Technology (China); S. Zhang, Nanjing Institute of Astronomical Optics & Technology (China) |
| 8447 5K | **Adaptive optics performance simulation on the basis of MASS/DIMM data obtained on Mt. Shatdzhatmaz in 2009–2011** [8447-206]  
B. S. Salomonov, Moscow MV Lomonosov State Univ., Sternberg Astronomical Institute (Russian Federation) |
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F. Quirós-Pacheco, G. Agapito, A. Riccardi, S. Esposito, INAF - Osservatorio Astrofisico di Arcetri (Italy); M. Le Louarn, E. Marchetti, European Southern Observatory (Germany) |
Calibration strategy of the pyramid wavefront sensor module of ERIS with the VLT deformable secondary mirror [8447-208]
A. Riccardi, R. Briguglio, E. Pinna, G. Agapito, F. Quiros-Pacheco, S. Esposito, INAF - Osservatorio Astrofisico di Arcetri (Italy)

Identification and calibration of the interaction matrix parameters for AO and MCAO systems [8447-209]
B. Neichel, Gemini Observatory (Chile); A. Parisot, C. Petit, T. Fusco, ONERA (France); F. Rigaut, Gemini Observatory (Chile)

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G. J. Michels, V. L. Genberg, Sigmadyne, Inc. (United States)

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D. Gratadour, A. Sevin, J. Brulé, É. Gendron, G. Roussel, LESIA, Observatoire de Paris, CNRS, Univ. Paris Diderot, UPMC (France)

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M. Rosensteiner, MathConsult GmbH (Austria); R. Ramlau, Johannes Kepler Univ. of Linz (Austria)

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