

# Lista delle pubblicazioni:

*Riviste con Referee*

**2024**

[R31] D. Liu et al., “**Detailed study of a rare hyperluminous rotating disk in an Einstein ring 10 billion years ago**”, *Nature Astronomy* (2024).

DOI: [10.1038/s41550-024-02296-7](https://doi.org/10.1038/s41550-024-02296-7)

ADS: [2024NatAs.tmp..129L](https://ui.adsabs.org/2024NatAs.tmp..129L)

other: <https://www.media.inaf.it/2024/07/15/pj0116-24-alma-eris/>

<https://www.eso.org/public/images/potw2429a/>

[R30] N. Levraud et al., “**Strategy for sensing petal mode in presence of AO residual turbulence with pyramid wavefront sensor**”, *Astronomy & Astrophysics* (2024).

DOI: [10.1051/0004-6361/202346929](https://doi.org/10.1051/0004-6361/202346929)

ADS: [2024arXiv240107570L](https://ui.adsabs.org/2024arXiv240107570L)

[R29] S. Crowe et al., “**Near-Infrared Observations of Outflows and YSOs in the Massive Star-Forming Region AFGL 5180**”, *Astronomy & Astrophysics* (2024).

DOI: [10.1051/0004-6361/202348094](https://doi.org/10.1051/0004-6361/202348094)

ADS: [2023arXiv231111909C](https://ui.adsabs.org/2023arXiv231111909C)

**2023**

[R28] L. Schey et al., “**Decomposition of the central structure of NGC 2273 in the NIR: a case study**”, *Astronomische Nachrichten* (2023).

DOI: [10.1002/asna.20230094](https://doi.org/10.1002/asna.20230094)

ADS: [2023AN....34430094S](https://ui.adsabs.org/2023AN....34430094S)

other: [10.1002/asna.20239018](https://doi.org/10.1002/asna.20239018)

[R27] G. Agapito et al., “**Non-modulated pyramid wavefront sensor Use in sensing and correcting atmospheric turbulence**”, *Astronomy & Astrophysics*, Volume 677, id. A168, 11 pp. (September 2023).

DOI: [10.1051/0004-6361/202346359](https://doi.org/10.1051/0004-6361/202346359)

ADS: [2023A%26A...677A.168A](https://ui.adsabs.org/2023A%26A...677A.168A)

other: <https://www.media.inaf.it/2023/09/27/piramidi-ottica-adattiva/>

[R26] F. Mannucci et al., “**GMP-selected dual and lensed AGNs: selection function and classification based on near-IR colors and resolved spectra from VLT/ERIS, KECK/OSIRIS, and LBT/LUCI**”, *Astronomy & Astrophysics*, Volume 680, A53, 13pp. (December 2023).

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[R25] R. Davies, O. Absil, G. Agapito, et al., “**The Enhanced Resolution Imager and Spectrograph for the VLT**”, *Astronomy & Astrophysics*, Volume 674, id. A207, 19 pp. (2023).

DOI: [10.1051/0004-6361/202346559](https://doi.org/10.1051/0004-6361/202346559)

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[R24] F. Massi, A. Caratti o Garatti, R. Cesaroni, T. K. Sridharan, E. Ghose, E. Pinna, M. T. Beltrán, S. Leurini, L. Moscadelli, A. Sanna, G. Agapito, R. Briguglio, J. Christou, S. Esposito, T.

Mazzoni, D. Miller, C. Plantet, J. Power, A. Puglisi, F. Rossi, B. Rothberg, G. Taylor, C. Veillet, **“The SOUL view of IRAS20126+4104. Kinematics and variability of the H2 jet from a massive protostar”**, *Astronomy & Astrophysics*, Volume 672, id.A113, 26 pp. (2023).

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[R23] A. J. T. S. Mello, E. Oroski, V. B. Frencl, G. Agapito, D. R. Pipa, **“System identification and tuning applied to pseudo open loop control in multi-conjugate adaptive optics”**, *Journal of Astrophysics and Astronomy* volume 43, Article number: 61 (2022).

DOI: [10.1007/s12036-022-09846-3](https://doi.org/10.1007/s12036-022-09846-3)

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[R22] M. Simioni, C. Arcidiacono, R. Wagner, A. Grazian, M. Gullieuszik, E. Portaluri, B. Vulcani, Anita Zanella, G. Agapito, R. Davies, T. Helin, F. Pedichini, R. Piazzesi, E. Pinna, R. Ramlau, F. Rossi, A. Salo, **“Point spread function reconstruction for SOUL+LUCI LBT data”**, *J. Astron. Telesc. Instrum. Syst.* 8(3), 038003 (2022).

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[R21] G. Carlà, C. Plantet, L. Busoni, G. Agapito, **“Temporal spectrum of multi-conjugate adaptive optics residuals and impact of tip-tilt anisoplanatism on astrometric observations”**, *Monthly Notices of the Royal Astronomical Society*, stac2377 (2022).

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[R20] T. Fusco, G. Agapito, B. Neichel, S. Oberti, C. Correia, P. Haguenaer, C. Plantet, F. Pedreros, Z. Ke, A. Costille, P. Jouve, L. Busoni, S. Esposito, **“Key wavefront sensors features for laser-assisted tomographic adaptive optics systems on the Extremely Large Telescope”**, *J. Astron. Telesc. Instrum. Syst.* 8(2), 021514 (2022).

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ADS: [2022JATIS...8b1514F](https://ui.adsabs.org/2022JATIS...8b1514F)

[R19] A. Rossi, B. Rothberg, E. Palazzi, D. A. Kann, P. D’Avanzo, L. Amati, S. Klose, A. Perego, E. Pian, C. Guidorzi, A. S. Pozanenko, S. Savaglio, G. Stratta, G. Agapito, S. Covino, F. Cusano, V. D’Elia, M. De Pasquale, M. Della Valle, O. Kuhn, L. Izzo, E. Loffredo, N. Masetti, A. Melandri, P. Y. Minaev, A. Nicuesa Guelbenzu, D. Paris, S. Paiano, C. Plantet, F. Rossi, R. Salvaterra, S. Schulze, C. Veillet, and A. A. Volnova, **“The Peculiar Short-duration GRB 200826A and Its Supernova”**, *The Astrophysical Journal*, Volume 932, Number 1 (2022)

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Other: [www.media.inaf.it/2022/06/08/mezzo-secondo-la-vita-breve-duno-strano-grb](http://www.media.inaf.it/2022/06/08/mezzo-secondo-la-vita-breve-duno-strano-grb)  
[lbtnews.blogspot.com/2022/06/an-unexpected-gamma-ray-burst.html](http://lbtnews.blogspot.com/2022/06/an-unexpected-gamma-ray-burst.html)

[R18] C. Plantet, B. Neichel, G. Agapito, L. Busoni, C. M. Correia, T. Fusco, M. Bonaglia, S. Esposito, **“Sky coverage assessment for the European ELT: a joint evaluation for MAORY/MICADO and HARMONI”**, *J. Astron. Telesc. Instrum. Syst.* 8(2), 021509 (2022)

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[R17] G. Agapito, L. Busoni, G. Carlà, C. Plantet, S. Esposito, “**Rolling shutter induced aberrations in laser guide star wavefront sensing**”, J. Astron. Telesc. Instrum. Syst. 8(2), 021505 (2022)

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[R16] C. Plantet, G. Carlà, G. Agapito, L. Busoni, “**Spatiotemporal statistics of the turbulent piston-removed phase and Zernike coefficients for two distinct beams**”, Journal of the Optical Society of America A, Vol. 39, Issue 1, pp. 17-27 (2022)

DOI: [10.1364/JOSAA.431520](https://doi.org/10.1364/JOSAA.431520)

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## 2021

[R15] G. Agapito, F. Rossi, C. Plantet, A. Puglisi, E. Pinna, “**Advances in control of a pyramid single conjugate adaptive optics system**”, Monthly Notices of the Royal Astronomical Society, Volume 508, Issue 2, December 2021, Pages 1745–1755.

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[R14] S. Monty, F. Rigaut, R. McDermid, H. Baumgardt, J. Cranney, G. Agapito, J. T. Mendel, C. Plantet, D. Greggio, P. B. Stetson, G. Fiorentino, D. Haynes, “**Towards realistic modelling of the astrometric capabilities of MCAO systems: detecting an intermediate-mass black hole with MAVIS**”, Monthly Notices of the Royal Astronomical Society, Volume 507, Issue 2, October 2021, Pages 2192–2207

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[R13] S. Esposito, A. Puglisi, E. Pinna, G. Agapito, F. Quirós-Pacheco, J. P. Véran, and G. Herriot, “**On-sky correction of non-common path aberration with the pyramid wavefront sensor**”, Astronomy & Astrophysics 636, A88 (2020).

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[R12] G. Fiorentino, M. Bellazzini, M. Spera, N. B. Sabha, M. Mapelli, L. Schreiber, M. Dall’Ora, L. Inno, M. Patti, V. F. Braga, M. Lombini, E. Diolaiti, F. Cortecchia, C. Arcidiacono, C. Plantet, G. Agapito, “**Deep into the core of dense star clusters: an astrometric and photometric test case for ELT**”, Monthly Notices of the Royal Astronomical Society, Volume 494, Issue 3, May 2020, Pages 4413–4425

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## 2019

[R11] G. Agapito, E. Pinna, “**Semi-analytical error budget for adaptive optics systems with pyramid wave-front sensors**”, J. Astron. Telesc. Instrum. Syst. 5(4), 049001 (2019)

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Gredel, D. Miller, E. Pinna, A. Puglisi, F. Rossi, W. Seifert, and G. Taylor, “**3C 294 revisited: Deep Large Binocular Telescope AO NIR images and optical spectroscopy**”, *Astronomy & Astrophysics* (2019)  
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## 2018

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[R8] G. Agapito, C. Arcidiacono, F. Quirós-Pacheco, and S. Esposito, “**Adaptive Optics at Short Wavelengths Expected performance of the FLAO system going toward visible wavelengths**”, *Experimental Astronomy* (2014).  
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[R7] S. Esposito, D. Mesa, A. Skemer, C. Arcidiacono, R.U. Claudi, S. Desidera, R. Gratton, F. Mannucci, F. Marzari, E. Masciadri, L. Close, P. Hinz, C. Kulesa, D. McCarthy, J. Males, G. Agapito, J. Argomedo, K. Boutsia, R. Briguglio, G. Brusa, L. Busoni, G. Cresci, L. Fini, A. Fontana, J.C. Guerra, J.M. Hill, D. Miller, D. Paris, E. Pinna, A. Puglisi, F. Quiros-Pacheco, A. Riccardi, P. Stefanini, V. Testa, M. Xompero, C. Woodward, “**LBT observations of the HR 8799 planetary system: First detection of HR8799e in H band**”, *Astronomy & Astrophysics*, 549, A52 (2013).  
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*Conference proceedings*

**2024**

[C151] P. Ciliegi et al., “**MORFEO at ELT: the adaptive optics module for ELT**”, Proceedings Volume 13097, Adaptive Optics Systems IX; 1309722, SPIE (2024).

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2. ADONI 2016 - L'Ottica Adattiva in Astronomia in Italia, Firenze 12-14 aprile, 2016  
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3. WaveFront Sensing in the VLT/ELT era II, 2 – 4 October 2017, Padova, Italy  
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4. Workshop ADONI 2018, 16–18 May 2018 Orvieto (TR), Palazzo dei Sette  
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6. Wavefront sensing in the VLT/ELT era, 4th edition, Firenze, 29 October 2019  
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8. WAVEFRONT SENSING IN THE VLT/ELT ERA VII, 1– 3 December 2021, Valparaiso, Chile and Hybrid Online Mode  
“Can we LIFT islands?”  
<http://wfs2021.pucv.cl/page4.html>  
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9. Laboratoire d’Astrophysique de Marseille (LAM) R&D seminar 24/02/2022  
“Advances in control of a pyramid single conjugate adaptive optics system”  
[https://seminars.lam.fr/data/GRD/GRD\\_2022-02-24\\_AgapitoGuido.mp4](https://seminars.lam.fr/data/GRD/GRD_2022-02-24_AgapitoGuido.mp4)
10. IV Workshop ADONI, 24 – 26 May 2022 Sala Polifunzionale della Provincia di Teramo  
“PASSATA and TIPTOP: simulation tools for Adaptive Optics systems in ADONI”  
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11. SPIE Astronomical Telescope + Instrumentation, JULY 17 – 22, 2022, Montreal, CANADA, 20 July 2022  
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12. AO4ELT7, June 25 – 30, 2023, Palais des Papes, Avignon, France  
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