LISTE DE PUBLICATIONS

PRINCIPAUX ARTICLES

- Galicher, R.; Potier, A.; Mazoyer, J. et al. Increasing the raw contrast of VLT/SPHERE with the dark hole technique. III. Broadband reference differential imaging of HR 4796 using a four quadrant phase mask (submitted to A & A)
- 1. Stasevic, S.; Milli, J.; Mazoyer, J. et al. (2023), An inner warp discovered in the disk around HD 110058 using VLT/SPHERE and HST/STIS, Astronomy and Astrophysics, 678, A8, DOI link, arXiv link, 2 citations
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- 3. Potier, A.; Mazoyer, J.; Wahhaj, Z. et al. (2022), Increasing the raw contrast of VLT/SPHERE with the dark hole technique. II. On-sky wavefront correction and coherent differential imaging, Astronomy and Astrophysics, 665, A136, DOI link, arXiv link, 7 citations
- 4. Chen, C.; Mazoyer, J.; Poteet, C. A. et al. (2020), Multiband GPI Imaging of the HR 4796A Debris Disk, The Astrophysical Journal, 898, 55, DOI link, arXiv link, 33 citations
- 5. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2018), Active Correction of Aperture Discontinuities-Optimized Stroke Minimization. II. Optimization for Future Missions, The Astronomical Journal, 155, 8, DOI link, arXiv link, 22 citations
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- 10. **Mazoyer, J.**; Boccaletti, A.; Augereau, J.-C. et al. (2014), Is the HD 15115 inner disk really asymmetrical?, Astronomy and Astrophysics, 569, A29, DOI link, arXiv link, 33 citations
- 11. **Mazoyer**, J.; Baudoz, P.; Galicher, R. et al. (2014), *High-contrast imaging in polychromatic light with the self-coherent camera*, Astronomy and Astrophysics, 564, L1, DOI link, arXiv link, 32 citations
- 12. Mazoyer, J.; Baudoz, P.; Galicher, R. et al. (2013), Estimation and correction of wavefront aberrations using the self-coherent camera: laboratory results, Astronomy and Astrophysics, 557, A9, DOI link, arXiv link, 33 citations

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- 2. Worthen, K.; Chen, C. H.; Brittain, S. et al. (2024), Vertical Structure of Gas and Dust in Four Debris Disks (accepted in ApJ), arXiv e-prints, arXiv:2312.09106
- 3. Crotts, K. A.; Matthews, B. C.; Duchêne, G. et al. (2024), A Uniform Analysis of Debris Disks with the Gemini Planet Imager. I. An Empirical Search for Perturbations from Planetary Companions in Polarized Light Images, The Astrophysical Journal, 961, 245, DOI link, arXiv link, 1 citation
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- 5. Carter, A. L.; Hinkley, S.; Kammerer, J. et al. (2023), The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High-contrast Imaging of the Exoplanet HIP 65426 b from 2 to 16 μm, The Astrophysical Journal, 951, L20, DOI link, arXiv link, 34 citations

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- 9. Betti, S. K.; Follette, K.; Jorquera, S. et al. (2022), Detection of Near-infrared Water Ice at the Surface of the (Pre)Transitional Disk of AB Aur: Informing Icy Grain Abundance, Composition, and Size, The Astronomical Journal, 163, 145, DOI link, arXiv link, 11 citations
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- 20. Stark, C. C.; Belikov, R.; Bolcar, M. R. et al. (2019), ExoEarth yield landscape for future direct imaging space telescopes, Journal of Astronomical Telescopes, Instruments, and Systems, 5, 024009, DOI link, arXiv link, 44 citations
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- 25. Jensen-Clem, R.; Mawet, D.; Gomez Gonzalez, C. A. et al. (2018), A New Standard for Assessing the Performance of High Contrast Imaging Systems, The Astronomical Journal, 155, 19, DOI link, arXiv link, 29 citations

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- 30. Wiens, R. C.; Maurice, S.; Lasue, J. et al. (2013), Pre-flight calibration and initial data processing for the ChemCam laser-induced breakdown spectroscopy instrument on the Mars Science Laboratory rover, Spectrochimica Acta, 82, 1, DOI link, 229 citations
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- 2. Mazoyer, J.; Arriaga, P.; Hom, J. et al. (2020), DiskFM: A forward modeling tool for disk analysis with coronagraphic instruments, Ground-based and Airborne Instrumentation for Astronomy VIII, 11447, 1144759, DOI link, arXiv link, 6 citations
- 3. Fogarty, K.; Mazoyer, J.; St. Laurent, K. et al. (2018), Optimal deformable mirror and pupil apodization combinations for apodized pupil Lyot coronagraphs with obstructed pupils, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106981J, DOI link, 2 citations
- 4. Ruane, G.; Riggs, A.; Mazoyer, J. et al. (2018), Review of high-contrast imaging systems for current and future ground- and space-based telescopes I: coronagraph design methods and optical performance metrics, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106982S, DOI link, arXiv link, 12 citations
- 5. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2017), Capabilities of ACAD-OSM, an active method for the correction of aperture discontinuities, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 104000G, DOI link, arXiv link, 2 citations
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- 14. Baudoz, P.; Mazoyer, J.; Galicher, R. (2013), Laboratory tests of planet signal extraction in high contrast images, Proceedings of the Third AO4ELT Conference, 109, DOI link, 2 citations
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- 2. Fowler, J.; Haffert, S. Y.; van Kooten, M. A. M. et al. (2023), Visible extreme adaptive optics on extremely large telescopes: towards detecting oxygen in Proxima Centauri b and analogs, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 12680, 126801U, DOI link
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- 5. Boccaletti, A.; Chauvin, G.; Wildi, F. et al. (2022), Upgrading the high contrast imaging facility SPHERE: science drivers and instrument choices, Ground-based and Airborne Instrumentation for Astronomy IX, 12184, 121841S, DOI link, arXiv link, 1 citation
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- Mazoyer, J. et al. (2019), High-Contrast Testbeds for Future Space-Based Direct Imaging Exoplanet Missions, Bulletin of the American Astronomical Society, 51, 101, arXiv:1907.09508

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• Mazoyer, J. (2014), Haut contraste pour l'imagerie directe d'exoplanètes et de disques : de la self-coherent camera à l'analyse de données NICI, Ph.D. Thesis, DOI link, 2 citations