LISTE DE PUBLICATIONS

PRINCIPAUX ARTICLES

- 1. Laginja, I.; Baudoz, P.; **Mazoyer, J.** et al. (2025), Extended Linearity in the High-Order Wavefront Sensor for the Roman Coronagraph, accepted for publication in A&A, arXiv link
- 2. Squicciarini, V.; Mazoyer, J.; Lagrange, A.-M. et al. (2025), The COBREX archival survey: Improved constraints on the occurrence rate of wide-orbit substellar companions: I. A uniform re-analysis of 400 stars from the GPIES survey, Astronomy and Astrophysics, 693, A54, DOI link, arXiv link, 2 citations
- 3. Gutierrez, Y.; Mazoyer, J.; Mugnier, L. M. et al. (2024), Image-based wavefront correction using model-free reinforcement learning, Optics Express, 32, 31247, DOI link, arXiv link
- 4. Galicher, R.; Potier, A.; Mazoyer, J. et al. (2024), Increasing the raw contrast of VLT/SPHERE with the dark hole technique. III. Broadband reference differential imaging of HR4796 using a four-quadrant phase mask, Astronomy and Astrophysics, 686, A54, DOI link, arXiv link, 1 citation
- 5. Galicher, R. & Mazoyer, J. (2024), Imaging exoplanets with coronagraphic instruments, Comptes Rendus Physique, 24, 133, DOI link, arXiv link, 16 citations
- 6. 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, 7 citations
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- 8. 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, 36 citations
- 9. 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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- 11. Fogarty, K.; Pueyo, L.; **Mazoyer, J.** et al. (2017), Polynomial Apodizers for Centrally Obscured Vortex Coronagraphs, The Astronomical Journal, 154, 240, DOI link, arXiv link, 10 citations
- 12. Mazoyer, J.; Pueyo, L.; Norman, C. et al. (2016), Active compensation of aperture discontinuities for WFIRST-AFTA: analytical and numerical comparison of propagation methods and preliminary results with a WFIRST-AFTA-like pupil, Journal of Astronomical Telescopes, Instruments, and Systems, 2, 011008, DOI link, arXiv link, 9 citations
- 13. Mazoyer, J.; Boccaletti, A.; Choquet, É. et al. (2016), A Symmetric Inner Cavity in the HD 141569A Circumstellar Disk, The Astrophysical Journal, 818, 150, DOI link, arXiv link, 13 citations
- 14. 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, 35 citations
- 15. 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, 36 citations
- 16. 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, 38 citations

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- 2. Hom, J.; Esposito, T. M.; Crotts, K. A. et al. (2025), The Disks In Scorpius-Centaurus Survey (DISCS)

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- 1. Gutierrez, Y.; Mazoyer, J.; Herscovici-Schiller, O. et al. (2024), A deep reinforcement learning approach to wavefront control for exoplanet imaging, Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave, 13092, 130926H, DOI link, arXiv link
- 2. Mazoyer, J.; Goulas, C.; Vidal, F. et al. (2024), Upgrading SPHERE with the second stage AO system SAXO+: non-common path aberrations estimation and correction, Ground-based and Airborne Instrumentation for Astronomy X, 13096, 130969D, DOI link
- 3. Fogarty, K.; Mawet, D.; **Mazoyer, J.** et al. (2020), Towards high throughput and low-order aberration robustness for vortex coronagraphs with central obstructions, Space Telescopes and Instrumentation 2020: Optical, Infrared, and Millimeter Wave, 11443, 114433Y, DOI link, 1 citation
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- 6. 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, 14 citations
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- 1. Stadler, E.; Schreiber, L.; Cortecchia, F. et al. (2024), Upgrading SPHERE with the second-stage adaptive optics system SAXO+: conceptual design of the opto-mechanical module, Adaptive Optics Systems IX, 13097, 130976S, DOI link
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PAPIERS BLANCS (SELECTION)

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