## LISTE DES PUBLICATIONS

## 1 PRINCIPAUX ARTICLES

- 1. 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, 8 citations
- 2. Mazoyer, J.; Pueyo, L.; N'Diaye, M. et al. (2018), Active Correction of Aperture Discontinuities-Optimized Stroke Minimization. I. A New Adaptive Interaction Matrix Algorithm, The Astronomical Journal, 155, 7, DOI Link, 7 citations
- 3. Fogarty, K.; Pueyo, L.; **Mazoyer**, **J.** et al. (2017), Polynomial Apodizers for Centrally Obscured Vortex Coronagraphs, The Astronomical Journal, 154, 240, DOI Link, 6 citations
- 4. 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, 8 citations
- 5. 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, 11 citations
- 6. 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, 29 citations
- 7. 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, 26 citations
- 8. 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, 27 citations

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- Bruzzone, J. S.; Metchev, S.; Duchêne, G. et al. (2020), Imaging the 44 au Kuiper Belt Analog Debris Ring around HD 141569A with GPI Polarimetry, The Astronomical Journal, 159, 53, DOI Link, 1 citation
- 3. Hom, J.; Patience, J.; Esposito, T. M. et al. (2020), First Resolved Scattered-light Images of Four Debris Disks in Scorpius-Centaurus with the Gemini Planet Imager, The Astronomical Journal, 159, 31, DOI Link, 1 citation
- Bhowmik, T.; Boccaletti, A.; Thébault, P. et al. (2019), Spatially resolved spectroscopy of the debris disk HD 32297. Further evidence of small dust grains, Astronomy and Astrophysics, 630, A85, DOI Link, 9 citations
- 5. Ren, B.; Choquet, É.; Perrin, M. D. et al. (2019), An Exo-Kuiper Belt with an Extended Halo around HD 191089 in Scattered Light, The Astrophysical Journal, 882, 64, DOI Link, 6 citations
- 6. 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, 4 citations

- 7. Engler, N.; Boccaletti, A.; Schmid, H. M. et al. (2019), Investigating the presence of two belts in the HD 15115 system, Astronomy and Astrophysics, 622, A192, DOI Link, 7 citations
- 8. Esposito, T. M.; Duchêne, G.; Kalas, P. et al. (2018), Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS, The Astronomical Journal, 156, 47, DOI Link, 9 citations
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- 10. Poteet, C. A.; Chen, C. H.; Hines, D. C. et al. (2018), Space-based Coronagraphic Imaging Polarimetry of the TW Hydrae Disk: Shedding New Light on Self-shadowing Effects, The Astrophysical Journal, 860, 115, DOI Link, 4 citations
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• Mazoyer, J. (2014), High-Contrast Direct Imaging of Exoplanets and Circumstellar Disks: From the Self-Coherent Camera to NICI Data Analysis, Ph.D. Thesis, DOI Link, 2 citations

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- 2. 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, 2 citations
- 3. 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, 2 citations
- 4. Mazoyer, J.; Pueyo, L. (2017), Fundamental limits to high-contrast wavefront control, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 10400, 1040014, DOI Link, 1 citation
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- 10. Mazoyer, J.; Boccaletti, A.; Augereau, J.-C. et al. (2014), Is the HD 15115 circumstellar disk really asymmetrical?, Thirty years of Beta Pic and Debris Disks Studies, 47
- 11. Mazoyer, J.; Galicher, R.; Baudoz, P. et al. (2014), Deformable mirror interferometric analysis for the direct imagery of exoplanets, Adaptive Optics Systems IV, 9148, 914846, DOI Link, 1 citation
- 12. Mazoyer, J.; Baudoz, P.; Galicher, R. et al. (2013), Direct detection of exoplanets in polychromatic light with a Self-coherent camera, Proceedings of the Third AO4ELT Conference, 97, DOI Link
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- 19. Gasnault, O.; Mazoyer, J.; Cousin, A. et al. (2012), Deciphering Sample and Atmospheric Oxygen Contents with ChemCam on Mars, Lunar and Planetary Science Conference, 2888, 1 citation

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- 2. Soummer, R.; Brady, G. R.; Brooks, K. et al. (2018), High-contrast imager for complex aperture telescopes (HiCAT): 5. first results with segmented-aperture coronagraph and wavefront control, Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave, 10698, 106981O, DOI Link
- 3. Snik, F.; Absil, O.; Baudoz, P. et al. (2018), Review of high-contrast imaging systems for current and future ground-based and space-based telescopes III: technology opportunities and pathways, Advances in Optical and Mechanical Technologies for Telescopes and Instrumentation III, 10706, 107062L, DOI Link, 2 citations
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- Boccaletti, A.; Chauvin, G.; Mouillet, D. et al. (2020), SPHERE+: Imaging young Jupiters down to the snowline, arXiv:e-prints, arXiv:2003.05714
- Gaudi, B. S.; Seager, S.; Mennesson, B. et al. (2020), The Habitable Exoplanet Observatory (HabEx) Mission Concept Study Final Report, arXiv e-prints, arXiv:2001.06683
- The LUVOIR Team (2019), The LUVOIR Mission Concept Study Final Report, arXiv e-prints, arXiv:1912.06219
- Mazoyer, J.; Baudoz, P.; Belikov, R. 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