

Rapport d'activité LPNHE 2022–2023

Liste de publications des activités Cosmologie – LSST/StarDice

- [1] Pierre Antilogus, Éric Aubourg, Alexandre Boucaud et al. « Design, assembly and validation of the Filter Exchange System of LSSTCam ». *Ground-based and Airborne Telescopes IX*. Sous la dir. d'Heather K. Marshall, Jason Spyromilio et Tomonori Usuda. T. 12182. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series. Août 2022, 121823A, 121823A. DOI : [10.1117/12.2629336](https://doi.org/10.1117/12.2629336).
- [2] Marc Betoule, Sarah Antier, Emmanuel Bertin et al. « StarDICE. I. Sensor calibration bench and absolute photometric calibration of a Sony IMX411 sensor ». *A&A* 670, A119 (fév. 2023), A119. DOI : [10.1051/0004-6361/202244973](https://doi.org/10.1051/0004-6361/202244973). arXiv : [2211.04913](https://arxiv.org/abs/2211.04913) [[astro-ph.IM](#)].
- [3] Philippe Gris, Nicolas Regnault, Humna Awan et al. « Designing an Optimal LSST Deep Drilling Program for Cosmology with Type Ia Supernovae ». *ApJS* 264.1, 22 (jan. 2023), p. 22. DOI : [10.3847/1538-4365/ac9e58](https://doi.org/10.3847/1538-4365/ac9e58). arXiv : [2205.07651](https://arxiv.org/abs/2205.07651) [[astro-ph.CO](#)].
- [4] Michelle Lochner, Dan Scolnic, Husni Almoubayyed et al. « The Impact of Observing Strategy on Cosmological Constraints with LSST ». *ApJS* 259.2, 58 (avr. 2022), p. 58. DOI : [10.3847/1538-4365/ac5033](https://doi.org/10.3847/1538-4365/ac5033). arXiv : [2104.05676](https://arxiv.org/abs/2104.05676) [[astro-ph.CO](#)].
- [5] Nicholas Mondrik, Michael Coughlin, Marc Betoule et al. « Measurement of Telescope Transmission Using a Collimated Beam Projector ». *PASP* 135.1045, 035001 (mars 2023), p. 035001. DOI : [10.1088/1538-3873/acbe1c](https://doi.org/10.1088/1538-3873/acbe1c). arXiv : [2302.11397](https://arxiv.org/abs/2302.11397) [[astro-ph.IM](#)].
- [6] Jérémy Neveu, Vincent Brémaud, Pierre Antilogus et al. « Slitless spectrophotometry with forward modelling : principles and application to atmospheric transmission measurement ». *arXiv e-prints* (juill. 2023). arXiv : [2307.04898](https://arxiv.org/abs/2307.04898) [[astro-ph.IM](#)].