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STANFORD ADVISORS

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Publications

PUBLICATIONS

- **KiDS-Legacy: Constraining dark energy, neutrino mass, and curvature** *ASTRONOMY & ASTROPHYSICS*
Reischke, R., Stolzner, B., Joachimi, B., Wright, A. H., Asgari, M., Bilicki, M., Elisa Chisari, N., Dvornik, A., Georgiou, C., Giblin, B., Harnois-Deraps, J., Heymans, C., Hildebrandt, et al
2026; 709
- **KiDS-Legacy: Constraints on Horndeski gravity from weak lensing combined with galaxy clustering and cosmic microwave background anisotropies** *ASTRONOMY & ASTROPHYSICS*
Stolzner, B., Reischke, R., Grasso, M., Cataneo, M., Joachimi, B., Loureiro, A., Spurio Mancini, A., Wright, A. H., Asgari, M., Bilicki, M., Dvornik, A., Georgiou, C., Giblin, et al
2026; 707
- **Emulating redshift mixing due to blending in weak gravitational lensing** *ASTRONOMY & ASTROPHYSICS*
Zhang, Z., Gruen, D., Tortorelli, L., Li, S., McCullough, J.
2026; 706
- **KiDS-Legacy: Cosmological constraints from cosmic shear with the complete Kilo-Degree Survey#** *ASTRONOMY & ASTROPHYSICS*
Wright, A. H., Stolzner, B., Asgari, M., Bilicki, M., Giblin, B., Heymans, C., Hildebrandt, H., Hoekstra, H., Joachimi, B., Kuijken, K., Li, S., Reischke, R., von Wietersheim-Kramsta, et al
2025; 703
- **KiDS-Legacy: Redshift distributions and their calibration** *ASTRONOMY & ASTROPHYSICS*
Wright, A. H., Hildebrandt, H., Van Den Busch, J., Bilicki, M., Heymans, C., Joachimi, B., Mahony, C., Reischke, R., Stolzner, B., Wittje, A., Asgari, M., Chisari, N., Dvornik, et al
2025; 703
- **Matter power spectrum reconstruction with KiDS-Legacy: Improved internal Λ CDM consistency and preference for strong baryonic feedback** *ASTRONOMY & ASTROPHYSICS*
Broxterman, J. C., Simon, P., Porth, L., Kuijken, K., Wright, A. H., Asgari, M., Bilicki, M., Heymans, C., Hildebrandt, H., Hoekstra, H., Joachimi, B., Li, S., Maturi, et al
2025; 703
- **Blending effects on shear measurement synergy between *Euclid*-like and LSST-like surveys** *ASTRONOMY & ASTROPHYSICS*
Zhang, S., Li, S., Hoekstra, H.
2025; 702

- **KiDS-Legacy: Consistency of cosmic shear measurements and joint cosmological constraints with external probes** *ASTRONOMY & ASTROPHYSICS*
Stolzner, B., Wright, A. H., Asgari, M., Heymans, C., Hildebrandt, H., Hoekstra, H., Joachimi, B., Kuijken, K., Li, S., Mahony, C., Reischke, R., Yoon, M., Bilicki, et al
2025; 702
- **Weak lensing constraints on the stellar-to-halo mass relation of galaxy groups with simulation-informed scatter** *ASTRONOMY & ASTROPHYSICS*
Li, S., Hoekstra, H., Kuijken, K., Schaller, M., Schaye, J.
2025; 700
- **KiDS-Legacy: Covariance validation and the unified OneCovariance framework for projected large-scale structure observables** *ASTRONOMY & ASTROPHYSICS*
Reischke, R., Unruh, S., Asgari, M., Dvornik, A., Hildebrandt, H., Joachimi, B., Porth, L., von Wietersheim-Kramsta, M., van den Busch, J., Stoelzner, B., Wright, A. H., Yan, Z., Bilicki, et al
2025; 699
- **6 x 2 pt: Forecasting gains from joint weak lensing and galaxy clustering analyses with spectroscopic-photometric galaxy cross-correlations** *ASTRONOMY & ASTROPHYSICS*
Johnston, H., Elisa Chisari, N., Joudaki, S., Reischke, R., Stoelzner, B., Loureiro, A., Mahony, C., Unruh, S., Wright, A. H., Asgari, M., Bilicki, M., Burger, P., Dvornik, et al
2025; 699
- **<i>Euclid</i>: V. The Flagship galaxy mock catalogue: A comprehensive simulation for the <i>Euclid</i> mission** *ASTRONOMY & ASTROPHYSICS*
Castander, F. J., Fosalba, P., Stadel, J., Potter, D., Carretero, J., Tallada-Crespi, P., Pozzetti, L., Bolzonella, M., Mamon, G. A., Blot, L., Hoffmann, K., Huertas-Company, M., Monaco, et al
2025; 697