

PUBLICATION LIST

- [1] **J. Feldbrugge** and R. van de Weygaert, “What makes a cosmic filament? The dynamical origin and identity of filaments I. fundamentals in 2D”, *Monthly Notices of the Royal Astronomical Society* (2024, R&R). [arXiv:2405.20475](#) [[astro-ph.CO](#)]
- [2] **J. Feldbrugge**, “Phase-Space Delaunay Tessellation Field Estimator”, *Monthly Notices of the Royal Astronomical Society* (2024, R&R). [arXiv:2402.16234](#) [[astro-ph.CO](#)]
- [3] **J. Feldbrugge**, D. L. Jow, U.-L. Pen, “Crossing singularities in the saddle point approximation”, *Physical Review Letters* (2023, R&R). [arXiv:2309.12427](#) [[quant-ph](#)]
- [4] **J. Feldbrugge**, D. L. Jow, U.-L. Pen, “Complex classical paths in quantum reflections and tunneling”, *Physical Review D* (2023, R&R). [arXiv:2309.12420](#) [[quant-ph](#)]
- [5] **J. Feldbrugge**, N.M.D. Niezink, “Orthogonality relations for conical functions of imaginary order”, (2023). [arXiv:2309.05616](#) [[math](#)]
- [6] **J. Feldbrugge**, “Complex evaluation of angular power spectra: Going beyond the Limber approximation”, *Physical Review D* (2023) nr. 108, 103007. [arXiv:2304.13064](#) [[astro-ph.CO](#)]
- [7] **J. Feldbrugge**, Y. Yan, and R. van de Weygaert, “Statistics of tidal and deformation eigenvalue fields in the primordial Gaussian matter distribution: the two-dimensional case”, *Monthly Notices of the Royal Astronomical Society* (2023, R&R). [arXiv:2301.07200](#) [[astro-ph.CO](#)]
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- [10] **J. Feldbrugge**, “Multi-plane lensing in wave optics,” *Monthly Notices of the Royal Astronomical Society* (2023) nr.250, 2995-3006. [arXiv:2010.03089](#) [[astro-ph.CO](#)]
- [11] **J. Feldbrugge**, and N. Turok, “Existence of real time quantum path integrals”, *Annals of Physics* (2023, R&R) [arXiv:2207.12798](#) [[hep-th](#)]
- [12] D. Jow, U.-L. Pen, and **J. Feldbrugge**, “Regimes in astrophysical lensing: refractive optics, diffractive optics, and the Fresnel scale”, *Monthly Notices of the Royal Astronomical Society* (2022). [arXiv:2204.12004](#) [[astro-ph.CO](#)]
- [13] G. Wilding, K. Nevenzeel, R. van de Weygaert, G. Vegter, P. Pranav, B.J.T. Jones, K. Efstathiou, and **J. Feldbrugge**, “Persistent homology of the cosmic web. I: Hierarchical topology in Λ CDM cosmologies”, *Monthly Notices of the Royal Astronomical Society*, 507 (2021) no.2, 2968-2990. [arXiv:2011.12851](#) [[astro-ph.CO](#)]
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