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Probing Inflation with PICO: Iterative internal lensing reconstruction and delensing pipeline on a full-sky mission with realistic noise and foregrounds

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Unambiguously detecting the primordial gravitational waves signal requires precise subtraction of confounding foregrounds, which have much larger amplitude. One such foreground is B-modes generated by gravitational lensing of E-modes.

We validated an optimal map-based delensing pipeline on simulations, with different complexities of noise including white and $1/f$ noise, homogeneous and inhomogeneous sky coverage, and realistic foregrounds emissions. We compare the delensing pipeline at map-level and at power spectra level.

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