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Three Point Correlation Function An Harmonic Decomposition for Weak Lensing

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Extracting the signal of 3-point statistics is limited to our computational power and processing of data ability. Standard tree algorithms scale as $O(N^2 \log N)$, with N the number of sampled objects. Hence, for upcoming photometric surveys, such as the Legacy of Space and Time (LSST), extract 3-pt signals will be prohibitive. We present a method to reduce the computrional complexity to $O(N \log N)$, tailored for weak lensing convergence and shear fields.

Resumen de la contribución

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