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Predictive Tomographic Turbulence Estimation in Zonal Basis

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Summary

Predictive turbulence control schemes are capable of compensating for servo-lag error in adaptive optics systems, both in single and multiple conjugate arrangements. We present a general predictive estimation strategy for tomographic applications, and also a specific solution for off-axis correction in single-LGS, high slew-rate applications (such as satellite tracking).

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