

MASTER'S THESIS PRESENTATION

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Gaussian Time Delay Estimation

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ABSTRACT

The study of time delays caused by strong gravitational lensing can provide insight into cosmological parameters and the properties of the involved celestial bodies. However, the estimation of these delays is complicated by data sparsity, microlensing effects, and measurement errors. We propose a Gaussian process based method of time delay estimation and apply it to simulated and real data.

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