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The future for strong gravitational lensing

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The Euclid mission is expected to discover perhaps two orders of magnitude more strong gravitational lenses than are known today. These will be quasar-galaxy, galaxy-galaxy and galaxy-cluster lenses. I will discuss what is required to find and process such a large number of lenses. I will then describe what can be learned from these lenses with respect to the dark matter distribution, cosmology and gravitational theory. In the process I will discuss new methods for analysing lensing data.

Primary author: METCALF, R. Benton (Univerity of Bologna)

Presenter: METCALF, R. Benton (Univerity of Bologna)

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