Poster Session #B
Observational and space tests of gravitation

B10

Progress on the Astrometric Gravitation Probe concept

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The Astrometric Gravitation Probe (AGP) mission is a modern version of the 1919 Dyson-Eddington-Davidson experiment, based on a space-borne telescope with a coronagraphic system implementing a permanent eclipse. The expected improvement on current experimental bounds to General Relativity and competing gravitation theories is by at least two orders of magnitude. The science is briefly recalled, and the measurement principle is reviewed: Fizeau-like combination of a set of individual inverted coronagraphs, simultaneously feeding a common telescope. A novel optical design has been recently introduced, minimising the sensitivity of the optical performance to perturbations.