

DOUBLE STAR MEASUREMENT WITH THE CERGA TWO TELESCOPE INTERFEROMETER

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ABSTRACT

The CERGA interferometer is made of two 25 cm aperture telescopes with a variable north-south baseline, spanning from 5.5 to 35 meters. In addition to stellar diameters, it has provided binary stars measurements with a 0.5 milliarcsecs precision for separation down to 2.5 milliarcseconds (Labeyrie 1971).

The visual limiting magnitude is presently 3.5. Large separation binaries will be observed with one milliarcsecond precision using a slightly different technique. This should provide a mean of detecting possible planetary induced orbital perturbations.

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