

Cross-calibration of DIMM monitors at Oukaimden observatory and Marrakesh site

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Abstract Over the past years, several differential image motion monitors (DIMM) have been built almost everywhere. The DIMM instrument is made up of simple material such as telescope, mask, camera . . . , and it is widely used in seeing measurement campaigns. In order to carry out a prospecting campaign, for the European Extremely Large Telescope (ELT) project, in the Moroccan High Atlas, we have built a new DIMM instrument in our laboratory. To characterize this instrument, we have carried out a cross-calibration between DIMM monitors using different configurations. In this paper we will present the results of those various experiments respectively at Oukaimden site and at the “École Normale Supérieure” (ENS) in the city of Marrakech.

Keywords Site testing · Instrumentation · Cross-calibration · DIMM · Seeing

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