

Commissioning Multi-Conjugate Adaptive Optics with LINC-NIRVANA on LBT

mardi 23 octobre 2018 16:40 (20 minutes)

We report on early commissioning of LINC-NIRVANA (LN), an innovative Multi-Conjugate Adaptive Optics (MCAO) system for the Large Binocular Telescope (LBT). LN uses two, parallel Multi-Conjugate Adaptive Optics (MCAO) systems, each of which corrects turbulence at two atmospheric layers, to deliver near diffraction-limited imagery over a two-arcminute field of view. We discuss our strategies for wavefront sensor calibration, target acquisition, and science observing. This is followed by a detailed update on MCAO commissioning, with a focus on on-sky performance since First Light. We conclude with an outlook to early science exploitation and lessons learned from bringing such a complex adaptive optics instrument into operation.

Summary

Early MCAO with LINC-NIRVANA on LBT

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Classification de Session: Instruments for Today & Tomorrow