

The Phasing and Diagnostic Station in the ELT

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The phasing and diagnostic station (PDS) at the ELT brings the telescope after the installation of mirrors to diffraction limited performance and into operational configuration for science by verifying telescope performance in relevant areas within the acceptance range of the PDS. It also enables to phase and optically diagnose the telescope throughout its lifetime. We report on the technical aspects of this tool and the systems engineering process that has resulted in the current status. We carried out an architectural trade-off study, with functional analysis and needs from the users as input, and selected a conceptual architecture baseline for the preliminary design phase.

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