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Support and actuation of the segmented primary mirror of the E-ELT

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Summary

The next “big thing” in ground-based astronomy is the design and construction of the European Extremely Large Telescope (E-ELT), a 39.3 m segmented primary mirror telescope for the optical and near-infrared range. TNO aims to contribute to this prestigious project via the design and realization of support structures for the primary mirror segments and actuators for piston-tip-tilt control of the segments, which must perform with nanometers of accuracy. This talk will give an overview of these technological developments, discuss the realized hardware and present some recently obtained results.

Presenter: Dr WITVOET, Gert (TNO)

Session Classification: Introduction