

First Light of the New Modular Controller for Astronomical Detectors (NGCII) and Further Developments

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This presentation gives an update on the new modular astronomical detector controller (NGCII) developed at ESO. The controller will be used for all future instruments on the Extremely Large Telescope (ELT).

In 2023 laboratory first-light has been achieved with two different CMOS detectors. CMOS detector related MTCA hardware is in the process of being readied for series production by fixing issues encountered with the prototypes and developing an automated test and calibration setup.

In parallel, preparations are ongoing for first light with a CCD detector. For this, another set of MTCA.4 modules, including a clock module using direct digital synthesis (DDS) to generate arbitrary clock waveforms, are developed.

Primary author: RICHERZHAGEN, Mathias (ESO)

Co-authors: Mr MEHRGAN, Leander (ESO); Mr SEIDEL, Matthias (ESO)

Presenter: RICHERZHAGEN, Mathias (ESO)

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