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The new SOXS instrument for the ESO NTT: overview and status of the project

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SOXS (Son Of X-Shooter) will be a unique spectroscopic facility built by an international consortium for the ESO-NTT 3.6-m telescope in La Silla (Chile). The design foresees a single-object, high-efficiency spectrograph with a resolution-slit product of $\sim 4,500$, capable of simultaneously observing the complete spectral range 350 - 2000 nm with a good sensitivity and with imaging capabilities in the visible band (ugrizY). It is designed to observe all kind of transients and variable sources discovered by different surveys with a highly flexible schedule maintained by the consortium, based on the Target of Opportunity concept. SOXS is going to be a fundamental spectroscopic partner for any kind of imaging survey, becoming one of the premier transient follow-up instruments in the Southern hemisphere.

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