CALL FOR CRIRES SCIENCE VERIFICATION PROPOSALS

<u>Deadlines</u>

Deadline for SV proposals: 7 July 2021 12:00 CEST

The VLT cryogenic high-resolution infrared cross dispersed echelle spectrograph CRIRES provides a resolving power of at least 40,000 (0.4" slit) or 80,000 (0.2" slit) in the spectral range from 0.95 to 5.3μm. As part of the upgrade, linear and circular polarisation capabilities have been added in the YJ and HK bands. CRIRES offers relatively high spatial (extended sources), spectral and temporal resolution. Spectral coverage is maximized through the use of a cross disperser and a mosaic of three Hawaii H2RG arrays providing an effective 6144 x 2048 pixel focal plane detector. Adaptive Optics (MACAO - Multi-Applications Curvature Adaptive optics) is used to feed the light into the slit and thereby enhance the signal-to-noise ratio of the observations.

Proposals will be reviewed by an internal panel and allocated time on the basis of scientific merit and feasibility, as well as demonstrated ability of the Principle Investigators to deliver results on a timely basis.

The observations will be conducted during three or four nights in September 2021 in Service Mode by a dedicated team of ESO astronomers. The CRIRES SV team will be able to assist the successful PIs in the preparation and optimization of the OBs on a best effort basis.

The CRIRES data reduction pipeline will be available for reduction of the SV data. Proposers are reminded that all SV data are made public worldwide immediately after passing the usual quality control checks.

Please read the CRIRES documentation carefully and use the exposure time calculator (www.eso.org/observing/etc/) to estimate the exposure times.

Please use the **ESO Phase 1** system for submissions of CRIRES Science Verification proposals. "CRIRES SV" should be used for the proposal cycle. A detailed description is available on the P1 Help Page.

Applications should be submitted through the new Phase 1 system not later than 7 July 2021, 12:00 CEST.