

Sun, Space Weather, and Solar-Stellar Connection



Contribution ID: 71

Type: **Contributed talk**

Performance of the Upgraded GRIS@GREGOR Spectrograph

Tuesday, January 21, 2025 4:50 PM (15 minutes)

Since its installation in 2012, the Gregor Infrared Spectrograph (GRIS) has been operating with a single detector that could be tuned to any wavelength in the bands 1.0-1.3 microns or 1.5-1.8 microns in spectroscopic or spectropolarimetric mode, or in the band 2.0-2.3 microns in spectroscopic mode. Few years ago, a removable integral field unit (IFU) was added to the system to make the long-slit and IFU modes available to the observers. More recently, two additional spectroscopic channels have been added to make feasible simultaneous spectroscopic observations in three spectral intervals. The second channel has already been implemented, tested and commissioned during 2024, with simultaneous observations obtained in two wavelengths (mainly centered in Ca II 854 nm and He 1083 nm, but not exclusively). In this talk, the performance of the dual channel configuration will be described, presenting actual data obtained during the commissioning phase.

Contribution Type

Theme

Solar Magnetism in High-Resolution

Primary author: Dr QUINTERO NODA, Carlos (Instituto de Astrofísica de Canarias)

Co-authors: Mr MATTA-GÓMEZ, Antonio (Instituto de Astrofísica de Canarias); Dr RUIZ DE GALARRETA, Claudia (Instituto de Astrofísica de Canarias); Dr GONZÁLEZ PÉREZ, Francisco (Instituto de Astrofísica de Canarias); Mr BIENES, Jonai (Instituto de Astrofísica de Canarias); Mr QUINTERO NEHRKORN, Jorge (Instituto de Astrofísica de Canarias); Dr TRELLES ARJONA, Juan Carlos (Instituto de Astrofísica de Canarias); Dr COLLADOS, Manuel (Instituto de Astrofísica de Canarias); Ms BARRETO CABRERA, Mary (Instituto de Astrofísica de Canarias); Ms GÓMEZ GONZÁLEZ, Patricia (Instituto de Astrofísica de Canarias); Mrs REGALADO OLIVARES, Silvia (Instituto de Astrofísica de Canarias)

Presenter: Dr COLLADOS, Manuel (Instituto de Astrofísica de Canarias)

Session Classification: Instruments/Facilities and Science: New and Upcoming