

## The WEAVE Core Processing System at CASU.

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### Abstract

WEAVE is the spectrograph for the new 2-degree field of view on the William Herschel Telescope. First light on WEAVE (expected for mid-2019) will permit either multi-object observations (MOS) using  $\sim 1000$  fibres or observations using Integral Field Units (either one large IFU, or 20 mini-IFUs). Another relevant feature of this instrument are the two resolution modes:  $R \sim 5000$  in the range 370 – 1000 nm, and  $R \sim 20000$  in the ranges 405 – 465 nm or 475 – 545 nm, and 595 – 685 nm.

The processing and analysis of WEAVE observations will be carried out by a collaboration between the Cambridge Astronomical Survey Unit (CASU) from the Institute of Astronomy, the Instituto de Astrofísica de Canarias and the Telescopio Nazionale Galileo.

In this poster, we describe the contribution from CASU: the WEAVE Core Processing System, which includes a platform for preparing the observations, a real-time analysis utility for checking the data, quality control checks from the images and data reduction including spectral extraction and calibration. (See poster).