

GRANGE OBS. OPERATIONS

- Photometers status

A minor change in the photometer at the 0.3-m f/3.3 telescope was the addition of the Gaia DR2 BP and RP channels for the QHY6 science camera. The photometer at the 0.14-m f/5.7 telescope also had an update, returning at the Johnson BVR channels for the SXL8-P science camera. The photometers at Grange Obs. are working nominally.

- Operations

The camera QHY6 was used without the peltier cooling, and the astrometry performed had a positional error of 70 mas for the stellar objects; with the CCD cooling set on instead, the limit magnitude increased more than one ABmag, and the astrometric error is reduced to 50 mas using the Gaia DR2 stellar catalogue. That should be due to the aperture photometry tool applied to Gaussian centroidal measure for stars, performing better with a constant sky background.

The new Gaia DR2 filters (BP and RP) were calibrated, performing well as expected.



