
SEMINARIO

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Solar System Small Bodies in J-VAR DR1

Abstract: The Javalambre VARIability Survey (J-VAR) is a photometric survey that is being carried out with the 0.8m Javalambre Auxiliary Survey Telescope (JAST80), located at the Observatorio Astronómico de Javalambre (OAJ, Teruel). J-VAR is the time-domain extension of the Javalambre-Photometric Local Universe Survey (J-PLUS, Cenarro et al. 2019), carried out in the same telescope. J-VAR uses a sub-set of seven filters from J-PLUS, covering the range from 0.395 up to 0.861 microns, including the g,r,i SDSS filters. The survey has been carried out in non-photometric conditions, from 2019 to the present day. J-VAR includes three main scientific lines: characterization of variable stars, supernovae detection, and small bodies detection and characterization. This presentation will cover this last point. We have analyzed the first data release of J-VAR (101 fields), using the SSOS Pipeline (Mahlke et al. 2019), looking for the Solar System objects detected within the survey images. We have recovered more than 100,000 detections in all the filters, for more than 6,000 Solar System moving objects. We have performed the photometric calibration of the detections relying on secondary calibrations based on already observed J-PLUS fields (López-SanJuan et al. 2019). At the moment, we are performing several quality checks on the data, aiming to compile the first J-VAR Moving Objects Catalog.

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