

Technical scientific developments at the OAJ

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Abstract

The Observatorio Astrofísico de Javalambre (OAJ) is a new astronomical facility in Spain particularly conceived for carrying out large sky surveys with two unprecedented telescopes of unusually large fields of view: the JST/T250, a 2.55 m telescope of 3 deg field of view, and the JAST/T80, an 83 cm telescope of 2 deg field of view. The most immediate objective of the two telescopes for the next years is carrying out two unique photometric surveys of several thousand square degrees, J-PAS and J-PLUS, each of them with a wide range of scientific applications, like e.g. large structure cosmology and Dark Energy, galaxy evolution, supernovae, Milky Way structure, exoplanets, among many others. To do that, JST and JAST will be equipped with panoramic cameras under development within the J-PAS collaboration, JPCam and T80Cam respectively, which make use of large format ($\sim 10k \times 10k$) CCDs covering the entire focal plane.

This poster summarizes the activities and major scientific and technical developments carried out in CEFCA and at the OAJ, highlighting the following four main areas: a) Assessment and management of external developments, b) Developments carried out in CEFCA, c) Implementation and commissioning of OAJ systems, and d) Maintenance, training, support and technical assistance in day and night operations at the OAJ.

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