

Extinction, Seeing and Sky Transparency Monitoring at the Observatorio Astrofísico de Javalambre for J-PAS and J-PLUS calibration and scheduling

Vázquez Ramió, H., Díaz-Martín, M. C., Varela, J., Ederoclite, A., Maícas, N., Lamadrid, J. L., Abril, J., Iglesias-Marzoa, R., Rodríguez, S., Tilve, V., Cenarro, A. J., Antón Bravo, J. L., Bello Ferrer, R., Cristóbal-Homillos, D., Guillén Civera, L., Hernández-Fuertes, J., Jiménez Mejias, D., Lasso-Cabrera, N.M., López Alegre, G., López Sainz, Á., Luis-Simoes, R.M., Marín-Franch, A., Moles, M., Rueda-Teruel, F., Rueda-Teruel, S., Suárez López, O., Yanes-Díaz, A

The Javalambre-Physics of the Accelerating Universe Astrophysical Survey (J-PAS) (see Benitez et al. 2014) and the Javalambre-Photometric Local Universe Survey (J-PLUS) will be conducted at the brand-new Observatorio de Astrofisica de Javalambre (OAJ) in Teruel, Spain. J-PLUS is going to start by the end of the summer of 2014 while J-PAS first light is expected to happen along 2015. Besides the two main telescopes (with 2.5m and 80cm apertures), several smaller-sized fadilities are present at the OAJ devoted to site characterization and supporting measurements to be used to calibrate the J-PAS and J-PLUS photometry and to feed up the OAJ's Sequencer with input parameters, in particular, in the integrated seeing; and hands in order to trace the Observatory's extinction curve, which is the initial step to J-PAS overall photometric calibration procedure; an 8" telescope implementing the Differential Image Motion Monitor (DIMM) technique to obtain the integrated seeing; and an All-Sky Transmission MONitor (CMSTMON), an outputy all-sky instrument providing the sky transparency as well as sky brightness and the atmospheric extinction too. The main technical features of these instruments, their performance, their up-to-date results and their importance in the context of J-PAS, J-PLUS and the general operation of the Observatory are addressed here.













tmospheric extinction monitor CAI IBUR

OAJ's atmospheric extinction



Fig 6: Results from a sam data during the indicated ni and San Pedro Mártir (Schus he extinction monito ranal (Patat et al. 2011





DIMM

STMO

The Scheduler and the Sequencer



ts for the EoM function



6 $\langle \cdot \rangle$ TERU 8-12 SEPTIEMBRE 201