

Photometric calibration of the J-PLUS and J-PAS surveys

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Abstract

The Observatorio Astrofísico de Javalambre (OAJ, Teruel) will be the location of a large étendue 255cm telescope (JST/T250) that will carry out a multiband (57 filters) 8000 deg² sky survey: The Javalambre PAU-Astrophysical Survey (J-PAS). To maximize the time on target of the telescope, a preliminary survey (J-PLUS) will be carried out with an auxiliary 83cm telescope (JAST/T80) that will image the same area beforehand in 12 filters. In addition, atmospheric extinction will be measured with a dedicated extinction monitor (EXCALIBUR). This poster outline the procedure designed to calibrate the exposures of J-PAS to achieve the required photometric accuracy (uncertainty < 2%) needed to obtain precise photometric redshifts of millions of galaxies with the scientific goal of measuring the Acoustic Baryonic Oscillations.