



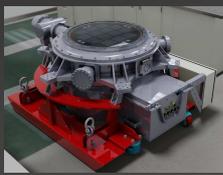
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ABSTRACT: This poster summarizes the activities and major scientific and technical developments carried out in CECCA and at the Observatorio Astrofísico de Javalambre (OAJ), highlighting the following four main areas: a) Assessment and management of external developments, b) Developments carried out in CECCA, c) Implementation and commissioning of OAJ systems, and d) Maintenance, Training, Support and Technical assistance in day and night operations at the OAJ.

ASSESSMENT AND MANAGEMENT OF EXTERNAL DEVELOPMENTS



JST/T250 Lifting Platform for Optics Integration



JPcam Cryostat



JST/T250 Dome

THE MAIN EXTERNAL PROJECTS THAT CECCA HAS WORKED AS A MANAGER, CONSULTANT AND ASSISTANT WERE:

- Telescopes designs and integration: Performed by AMOS and ASTELCO contractors, under CECCA supervision
- JST/T250 Dome: Designed and implemented by INGEMETAL Group under CECCA technical assistance
- Lifting platform for JST/T250 optomechanical integration: Designed, fabricated, assembled and tuned by ALAPONT Group in close collaboration with CECCA engineering team
- The panoramic camera for JST/T250, JPcam, is managed within the JPAS collaboration, where the main contractors are e2v, NTE-SENER, BONN-Shutter UG, SOLUNIA and INPE.



OAJ Control System design, implementation and programming



Development of Electronic Systems



Communication protocols between OCS, instrumentation and telescopes



Telescopes Integration: JST/T250 y JAST/T80



Integration, adjustment and opto-mechanical alignment of JAST/T80 Telescope



MAINTENANCE, TRAINING, SUPPORT AND TECHNICAL ASSISTANCE IN DAY AND NIGHT OPERATIONS AT THE OAJ



Weather station and Radio-link Communication system

DEVELOPMENTS CARRIED OUT IN CECCA

Design and implementation of different technical scientific developments as the novel control system and control network for OAJ based in a close ring topology, where every subsystem is integrated in a general control network.

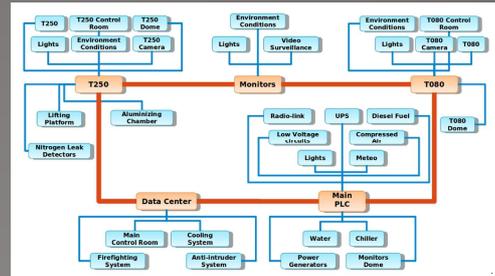
The Telescopes and Instrumentation Communication Software

Data Processing Unit and Archive (UPAD)

First Light Instrumentation for the JAST/T80 Telescope

Curvature Wavefront Sensing Software for JAST/T80 and JST/T250

And others support systems such as the Weather Station and the Radio Link communication OAJ-CECCA .



OAJ Global Control Network. Main nodes in control architecture system design

IMPLEMENTATION AND COMMISSIONING OF OAJ SYSTEMS

Active participation in the definition, implementation and commissioning of the main installations, systems and equipments that constitute the OAJ civil work.

Support in the integration works of JST/T250 and JAST/T80 telescopes.