\checkmark	Tetra-ARmed Super-Ifu Spectrograph (A. Gil de Paz et
\checkmark	Institutional contributions to TARSIS (J. Gallego et al.)
\checkmark	TARSIS management plan (M. García Vargas et al.)
\checkmark	CAB contribution to ELT-HARMONI (J. Piqueras López
\checkmark	GNIRS image slicers for GEMINI: Design and Manufac
✓	The Calar Alto Schmidt-Lemaitre Telescope (CASTLE): astronomy (S. Lombardo et al.)
\checkmark	The 4-m new robotic telescope (NRT): status of the op
✓	First application of a Kinetic Inductance Detector (KID Millimetre Regime (P. Torne et al.)
\checkmark	Yebes RT40m: a radiotelescope in a village of La Mana at.)
\checkmark	IAA-CSIC activities to develop a SKA Regional Centre
\checkmark	VLBI20-30: A scientific roadmap for the next decade (
 ✓ 	Filabres, a new pipeline for the automatic data reducting López et al.)

al.)

et al.)

cturing (A. Calcines et al.)

An innovative concept for wide field

otomechanial system (A. Oria et al.)

): Camera to Pulsar Science in the

cha (or almost) (M. Santander-García el

Prototype (S. Sánchez Expósito el at.)

Colomer)

ion of CAFOS direct imaging (N. Cardiel



X-ray UV gamma ray



CAB contribution to ELT-HARMONI (J. Piqueras López et al.)









The Calar Alto Schmidt-Lemaitre Telescope (CASTLE): An innovative concept for wide field astronomy (S. Lombardo et al.)



36cm aperture robotic telescope at CAHA Technology demonstrator for <u>curved detectors</u> Optomechanical design with <u>no spider & no lenses</u> PSF with very low-level wings and reduced ghost features suited to study the low surface brightness Universe FOV 2.36° x 1.56° and 1"/pix

X-ray UV gamma ray

The 4-m new robotic telescope (NRT): status of the optomechanial system (A. Oria et al.)



4m robotic telescope at ORM. Currently at Conceptual Design Phase Segmented primary mirror Fast response (on target <30s): Time Domain Astrophysics (GWs, GRBs, SN...) 350 - 2400 nm. Versatile instrumentation, focused on spectroscopy This contribution presents M1 assembly and M2 subsystem concept studies First light on 2025

IR

visible



The KID technology offers large instantaneous bandwidths and high sensitivity, potential to increase transient detections to radio wavelengths First application to study pulsars in the millimetre band is presented: NIKA2 camera on the IRAM 30m-telescope: 2896 KIDs: 150 and 260 GHz simultaneously, FOV: 6.5 arcmin First results on Reactivation of <u>radio magnetar XTE J1810–197</u> are shown

X-ray UV gamma ray Yebes RT40m: a radiotelescope in a village of La Mancha (or almost)



40m radiotelescope at Yebes ICTS Observes in the range 2-90 GHz Available observing modes and published results are presented. Telescope time distribution: - Routinely operates in single dish mode and as part of - Very Large Baseline Interferometry (VLBI) networks such as EVN and GMVA - Semestral open time call for proposals





(M. Santander-García et al.)



IAA-CSIC activities to develop a SKA Regional Centre Prototype (S. Sánchez Expósito et al.)



High data rate & complexity (600PB/year) IAA-CSIC is developing a Regional Center prototype SKA science, IAA-CSIC contribution & Team are also presented RC assembly by 2028

Square Kilometer Array (SKA) consortium to build a radio-interferometer A network of SKA Regional Centers to provide access to SKA data & analysis tools

UV X-ray gamma ray

VLBI20-30: A scientific roadmap for the next decade (F. Colomer)



The European VLBI Network (EVN) <u>scientific roadmap</u> for VLBI in the next decade is presented: 1- Cosmology 2- Galaxy formation and evolution 3- Innermost regions og AGN 4- Explosive phenomena, transients 5- Stars and stellar masers in the MW 6- Earth and Space





Blazars and peculia Massive BH system: [CH.3] - 25%

Filabres, a new pipeline for the automatic data red (N. Cardiel López et

Filabres pipeline developed for CAFOS (Calar Alto Faint Object Sp



in Python mages through by Spanish VO) licly available 2016-2017 completed)





Reduction of flat-imagin

IR

Docs » Reduction of science-imaging frames

Reduction of science-imaging frames

The reduction of science images is carried out individually, i.e., the scientific images are not combined within any time span prior to the reduction process (in fact, the value of maxtimespan_hours is set to zero in the file configuration_cafos.yaml).

There are many individual images classified as science-imaging :

\$ filabres -lc science-imaging Total: 4931 files

radio

hank you!

visible

