



SCIENTIFIC PROGRAMME

INSTITUTO DE ASTROFÍSICA DE ANDALUCÍA
GRANADA, 23-25 OCTOBER 2017

RIA
RED DE INFRAESTRUCTURAS DE ASTRONOMÍA

CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

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EDGAR SANTAMARÍA

Time	Monday 23 October	
	<i>Chair: MA Guerrero</i>	
15:00 – 15:30	Registration	
15:30 – 15:40	Welcome Words	IAA Director: Prof. A Alberdi
15:40 – 16:20	A.1 – Athena: ESA's X-ray observatory to study the Hot and Energetic Universe	FJ Carrera
16:20 – 16:50	S.1 – The Spanish scientific contribution to Athena	G Miniutti
16:50 – 17:20	COFFEE BREAK	
	<i>Chair: T Muñoz-Darias</i>	
17:20 – 17:50	S.2 – Synergies between CTA, SKA and Athena	I Agudo
17:50 – 18:10	X1.1 – Athena prospects on diffuse X-ray emission from hot bubbles	MA Guerrero
18:10 – 18:30	X1.2 – Unveiling the progenitor scenario of thermonuclear runaway SNe with Athena	MA Pérez Torres
18:30 – 18:50	X1.3 – Nova explosions in X-rays	G Sala

Time	Tuesday 24 October	
	<i>Chair: FJ Carrera</i>	
9:30 – 10:10	A.2 – The Wield Field Imager (WFI) for Athena	A Rau
10:10 – 10:50	A.3 – The Athena X-ray Integral Field Unit (X-IFU)	D Barret
10:50 – 11:20	COFFEE BREAK	
	<i>Chair: JM Torrejón Vázquez</i>	
11:20 – 11:50	S.3 – The Spanish contribution to Athena	J Gómez Elvira
11:50 – 12:10	X2.1 – Accretion and outflows in accreting black holes: the extreme case of V404 Cygni	T Muñoz Darías
12:10 – 12:30	X2.2 – Evidence of Compton cooling during an X-ray flare supports a neutron star nature of the compact object in 4U1700–37	M Martínez-Chicharro
12:30 – 12:50	X2.3 – Understanding the environment in HMXBs with RGS	JJ Rodes
12:50 – 13:10	X2.4 – Vertical structure of a LMXB accretion disc	F Jiménez-Ibarra
13:10 – 13:30	X2.5 – Broad-band X-ray analysis of neutron star LMXBs: the case of 4U 1608–52	M Armas Padilla
13:30 – 15:30	LUNCH BREAK	
	<i>Chair: R González-Riestra</i>	
15:30 – 15:50	X2.6 – A propelling neutron star in the enigmatic Be star gamma Cas	JM Torrejón Vázquez
15:50 – 16:10	X2.7 – XMM-Newton spectroscopy of the accreting magnetar candidate 4U0114+65	G Sanjurjo
16:10 – 16:30	X2.8 – Order parameters for the high-energy spectra of pulsars	DF Torres
16:30 – 17:00	COFFEE BREAK	
	<i>Chair: I Márquez</i>	
17:00 – 17:30	S.4 – Synergies between GTC and Athena	RLM Corradi
17:30 – 18:00	S.5 – Synergies between OCTOCAM and Athena	A de Ugarte
18:00 – 18:30	S.6 – Athena Community Office	S Martínez-Núñez
20:30 –	CONFERENCE DINNER AT CARMEN DE LA VICTORIA	

Time	Wednesday 25 October	
	<i>Chair: S Mateos</i>	
9:30 – 9:50	X3.1 – <i>e-XTP: a near-future China-EU mission for X-ray timing and polarization</i>	M Hernanz
9:50 – 10:10	X3.2 – <i>THESEUS: The Spanish Contribution</i>	A Castro-Tirado
10:10 – 10:30	X3.3 – <i>SIXTE: physically based simulations for the X-IFU calorimeter</i>	PE Merino Alonso
10:30 – 10:50	X4.1 – <i>X-ray variability of Seyfert 1.8/1.9 galaxies</i>	L Hernández García
10:50 – 11:20	COFFEE BREAK	
	<i>Chair: J Masegosa</i>	
11:20 – 11:40	X4.2 – <i>Intermediate-mass black holes in dwarf galaxies out to redshift ~ 2.4</i>	M Mezcua
11:40 – 12:00	X4.3 – <i>Dust-to-gas ratio in a complete sample of AGN</i>	I Ordovás Pascual
12:00 – 12:20	X4.4 – <i>A Large Fraction of Rapidly-Growing Supermassive Black Holes Evade Census</i>	S Mateos
12:20 – 12:40	X4.5 – <i>IR Spectroscopic Tracers for (obscured) Galaxies: Synergies between SPICA and Athena+</i>	JA Fernández-Ontiveros
12:40 – 13:00	X4.6 – <i>The Compton-thick AGN fraction from the deepest X-ray spectroscopy in the CDF-S</i>	A Corral
13:00 – 13:20	Meeting Summary	<i>FJ Carrera, MA Guerrero, JM Torrejón</i>
13:20 – 13:30	RIA Closing Remarks	RIA Coordinator: V Martínez

Invited Talks on Athena

A.1 Francisco J Carrera (IFCA, CSIC-UC)

“Athena: ESA's X-ray observatory to study the Hot and Energetic Universe”

A.2 Arne Rau (MPE Garching)

“The Wield Field Imager (WFI) for Athena”

A.3 Didier Barret (IRAP/CNRS)

“The Athena X-ray Integral Field Unit (X-IFU)”

Invited Talks on Spanish Contributions to Athena and Synergies

S.1 Giovanni Miniutti (CAB, INTA-CSIC)

“The Spanish scientific contribution to Athena”

S.2 Iván Agudo (IAA-CSIC)

“Synergies between CTA, SKA and Athena”

S.3 Javier Gómez Elvira (CAB, INTA-CSIC)

“The Spanish contribution to Athena”

S.4 Romano LM Corradi (GTC)

“Synergies between GTC and Athena”

S.5 Antonio de Ugarte (IAA-CSIC)

“Synergies between OCTOCAM and Athena”

S.6 Silvia Martínez-Núñez (IFCA, CSIC-UC)

“Athena Community Office”

Contributed Talks

X1 Stars and Supernovae

X1.1 Martin A Guerrero (IAA-CSIC)

“Athena prospects on diffuse X-ray emission from hot bubbles”

X1.2 Miguel Angel Pérez Torres (IAA-CSIC)

“Unveiling the progenitor scenario of thermonuclear runaway SNe with Athena”

X1.3 Gloria Sala (Universitat Politècnica de Catalunya)

“Nova explosions in X-rays”

X2 Stellar black holes, magnetars, and X-ray binaries

X2.1 Teo Muñoz Darías (IAC)

“Accretion and outflows in accreting black holes: the extreme case of V404 Cygni”

X2.2 María Martínez-Chicharro (Universidad de Alicante)

“Evidence of Compton cooling during an X-ray flare supports a neutron star nature of the compact object in 4U1700–37”

X2.3 José Joaquín Rodes (Universidad de Alicante/SRON)

“Understanding the environment in HMXBs with RGS”

X2.4 Felipe Jiménez-Ibarra (IAC)

“The vertical structure of a LMXB accretion disc”

X2.5 Montserrat Armas Padilla (IAC)

“Broad-band X-ray analysis of neutron star LMXBs: the case of 4U 1608–52”

X2.6 José Miguel Torrejón Vázquez (Universidad de Alicante)

“A propelling neutron star in the enigmatic Be star gamma Cas”

X2.7 Graciela Sanjurjo (Universidad de Alicante)

“XMM-Newton spectroscopy of the accreting magnetar candidate 4U0114+65”

X2.8 Diego F. Torres (ICREA & Institute of Space Sciences)

“Order parameters for the high-energy spectra of pulsars”

X3 Instrumentation

X3.1 Margarita Hernanz (ICE, CSIC-IEEC)

“e-XTP: a near-future China-EU mission for X-ray timing and polarization”

X3.2 Alberto Castro-Tirado (IAA-CSIC)

“THESEUS: The Spanish Contribution”

X3.3 Pablo Eleazar Merino Alonso (XRAGUA - Universidad Alicante)

“SIXTE: physically based simulations for the X-IFU calorimeter”

X4 Galaxies

X4.1 Lorena Hernández García (Universidad de Valparaíso)

“X-ray variability of Seyfert 1.8/1.9 galaxies”

X4.2 Mar Mezcuá (Institut of Space Sciences)

“Intermediate-mass black holes in dwarf galaxies out to redshift ~ 2.4 ”

X4.3 Ignacio Ordovás Pascual (IFCA, CSIC-UC)

“Dust-to-gas ratio in a complete sample of AGN”

X4.4 Silvia Mateos (IFCA, CSIC-UC)

“A Large Fraction of Rapidly-Growing Supermassive Black Holes Evade Census”

X4.5 Juan Antonio Fernández-Ontiveros (IAC)

“IR Spectroscopic Tracers for (obscured) Galaxies: Synergies between SPICA and Athena+”

X4.6 Amalia Corral (IFCA, CSIC-UC)

“The Compton-thick AGN fraction from the deepest X-ray spectroscopy in the CDF-S”