Sunday, 9th

20:00 Early registration and welcome cocktail at the Nazaríes Hotel

Monday, 10th

Monday,	lOth		
08:00	Registration opens		
09:00 - 09:15	Welcome and scope of the meeting, José L. Gómez		
Jet forma	tion (Chair: Gabriele Ghisellini)		
09:15 - 09:45	"The Role of Magnetic Fields in the Production and Propagation of Relativistic Jets", D. Meier (Review)		
09:45 - 10:15	"Relativistic Jet Formation by Spinning Black Holes", A. Tchekhovskoy (Invited)		
10:15 - 10:45	"Probing the inner jet of M87; from the jet base to HST-1", K. Hada (I)		
10:45 -11:15	Coffee break		
11:15 - 11:35	"The firs 2-years in the lifetime of the newly born jet associated to Swift J1644+57", A. J. Castro-Tirado		
11:35 - 11:55	"The M87 Jet", M. Nakamura		
11:55 - 12:15	"JEDs and SADs in X-ray Binaries", J. Ferreira		
12:15 - 12:35	"Polarimetric Observations of the Innermost Regions of Relativistic Jets in X-ray Binaries", D. Russell		
12:35 - 12:55	"The force-free magnetosphere of a rotating black hole", I. Contopoulos		
12:55 - 15:00	Lunch break		
Jet dynan	nics, structure and stability (Chair: José-María Martí)		
15:00 - 15:30	"The Role of Macroscopic & Microscopic Instabilities in Relativistic Jets", P. Hardee (R)		
15:30 - 16:00	"Jet dynamics and stability", M. Perucho (I)		
16:00 - 16:20	"Kink instability in relativistic magnetized jets", N. Vlahakis		
16:20 - 16:50	Coffee break		
16:50 - 17:10	"Radiation from relativistic jets from particle accelerated by shocks, shear-flows, and reconnection", K. Nishikawa		
17:10 - 17:30	"Current-Driven Kink Instability in Magnetically Dominated Rotating Relativistic Jet", Y. Mizuno		
17:30 - 17:50	"Rayleigh-Taylor and Richtmyer-Meshkov Instabilities in Relativistic Hydrodynamic Jets", J. Matsumoto		
17:50 - 18:10	"3 dimensional magneto hydrodynamic jet simulations", J. Staff		

Tuesday, 11th

$\begin{cal}Emission across the electromagnetic spectrum I (Chair: Jose L. Gómez) \end{cal}$

09:00 - 09:30			
	"Multi-waveband Behavior of Blazars", A. Marscher (R)		
09:30 - 10:00	"The "Far Distance" Scenario for Gamma-ray Emission in Blazars: A View from the VLBI Observing Perspective", I. Agudo (I)		
10:00 - 10:20	"The Gamma-ray Activity of the high-Z Quasar 0836+710", S. Jorstad		
10:20 - 10:40	"The radio/gamma-ray connection in Active Galactic Nuclei in the Fermi era", M. Giroletti		
10:40 -11:10	Coffee break		
11:10 - 11:30	"What can we learn from high energy flares in the Fermi sample of FSRQ: from a case study to dozens of objects", L. Pacciani		
11:30 - 11:50	"The nature of the IR emission in LLAGN at parsec scales: Does the jet dominate at luminosities?", J. A. Fernández Ontiveros		
11:50 - 12:10	"Jet evolution in Steep Spectrum Radio Quasars. A multiwavelength study", E. Torresi		
12:10 - 12:30	"Gamma-Ray variability studies of Misaligned AGN", P. Grandi		
12:30 - 12:50	"Probing the Radio Counterpart of Gamma-ray Flaring Region in 3C 84", H. Nagai		
12:50 - 13:10	"On the connection between radio and gamma rays. Variability and polarization properties in relativistic jets", M. Orienti		
13:10 - 15:00	Lunch break		
	Lunch break stellar-mass objects (Chair: Marcello Giroletti)		
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Jets from	stellar-mass objects (Chair: Marcello Giroletti)		
Jets from 15:00 - 15:30	stellar-mass objects (Chair: Marcello Giroletti) "Jets across the black hole mass scale: new insights from X-ray binaries", S. Markoff (R)		
Jets from 15:00 - 15:30 15:30 - 16:00	stellar-mass objects (Chair: Marcello Giroletti) "Jets across the black hole mass scale: new insights from X-ray binaries", S. Markoff (R) "Relativistic stellar jets: dynamics and non-thermal radiation", V. Bosch-Ramon (I)		
Jets from 15:00 - 15:30 15:30 - 16:00 16:00 - 16:20	stellar-mass objects (Chair: Marcello Giroletti) "Jets across the black hole mass scale: new insights from X-ray binaries", S. Markoff (R) "Relativistic stellar jets: dynamics and non-thermal radiation", V. Bosch-Ramon (I) "Search for new stellar sources of gamma-rays", J. Martí		
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Jets from 15:00 - 15:30 15:30 - 16:00 16:00 - 16:20 16:20 - 16:50 16:50 - 17:10	"Jets across the black hole mass scale: new insights from X-ray binaries", S. Markoff (R) "Relativistic stellar jets: dynamics and non-thermal radiation", V. Bosch-Ramon (I) "Search for new stellar sources of gamma-rays", J. Martí Coffee break "Discovery of synchrotron emission from a YSO jet", C. Carrasco González "Spectra and fast multi-wavelength variability of compact jets powered by internal		

Wednesday, 12th

$\pmb{Emission \ across \ the \ electromagnetic \ spectrum \ II \ (Chair: \ Svetlana \ Jorstad)}\\$

09:00 - 09:30 09:30 - 10:00 10:00 - 10:20 10:20 - 10:40	"Multi-wavelength emission models in blazars", G. Ghisellini (R) "Radio-loud AGN unification: Connecting jets and accretion", E. Meyer (I) "Leptonic and Hadronic Modeling of Fermi-Detected Blazars", M. Boettcher "Constraining the location of gamma-ray emission in Blazar jets", M. Joshi
10:40 -11:10	Coffee break
11:10 - 11:30	"An Exceptional Radio Flare in Markarian 421", J. Richards
11:30 - 11:50	"Time dependent photon and neutrino emission from Mkn421 in the context of the one-zone leptohadronic model", A. Mastichiadis
11:50 - 12:10	"Panchromatic Observations of the Nuclei of z<0.5 3CRR Radio Galaxies: Implications for Feeding, Feedback, and Black Hole Spin", D. Evans
12:10 - 12:30	"Relativistic jets in Narrow-Line Seyfert 1 galaxies. New discoveries and open questions", F. D'Ammando
12:30 - 12:50	"The origin and emission mechanism of VHE (>100 GeV) emission from FSRQs",
	B. Behera
12:50 - 13:10	"Uncovering the physics behind the blazar sequence using a realistic model for jet emission", W. Potter

Free afternoon for social activities (visit to Alhambra)

Thursday, 13th

Magnetic fields and jet physics I (Chair: Gabriele Giovannini)

09:00 - 09:30	"Magnetic fields and polarization in AGN jets", J. Wardle (R)
09:30 - 10:00	"Parsec-Scale Polarization and Magnetic Field Characteristics of MOJAVE AGN Jets", M. Lister (I)
10:00 - 10:20	"Magnetic field in the jet of 3C 454.3", M. Zamaninasab
10:20 - 10:40	"Probing the magnetic field of 3C279", S. Kiehlmann
10:40 -11:10	Coffee break
11:10 - 11:30	"A sensitive study of the peculiar jet structure HST-1 in M87", C. Casadio
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11:30 - 11:50	"Longitudinal and transverse velocity fields in parsec-scale jets", F. Mertens
11:30 - 11:50 11:50 - 12:10	
	"Longitudinal and transverse velocity fields in parsec-scale jets", F. Mertens
11:50 - 12:10	"Longitudinal and transverse velocity fields in parsec-scale jets", F. Mertens "AGN jet physics and observed apparent opening angles", E. Clausen-Brown
11:50 - 12:10 12:10 - 12:30	"Longitudinal and transverse velocity fields in parsec-scale jets", F. Mertens "AGN jet physics and observed apparent opening angles", E. Clausen-Brown "Intrinsic brightness temperatures of blazar jets at 15 GHz", T. Hovatta

13:10 - 15:00	Lunch break	

$Magnetic \ fields \ and \ jet \ physics \ II \ ({\tt Chair: John \ Wardle})$

15:00 - 15:30	"Multi-wavelength Polarization Studies of AGN Jets", D. Gabuzda (R)	
15:30 - 15:50	"Constraints on Blazar Jet Conditions During Gamma-Ray Flaring from Radiative Transfer Modeling", M. Aller	
15:50 - 16:10	"Recollimation Shock and the Fire Hose in BL Lacertae", M. Cohen	
16:10 - 16:30	"Broadband radio circular polarization observations of the quasar PKS B2126-158", S. O'Sullivan	
16:30 - 17:00	Coffee break	
17:00 - 17:20	"A Rotation Measure Gradient on the M87 VLA Jet", J. C. Algaba	
17:20 - 17:40	"Multi-frequency study of the TeV blazar Markarian 421 with VLBA observations", R. Lico	

"Studies of Blazar emission using a spatially resolved SSC model", S. Richter

Conference dinner at Palacio de los Cordova

Friday, 14th

17:40 - 18:00

AGN Jets (Chair: Markus Böttcher)

09:00 - 09:30	"Space VLB interferometer RadioAstron: early results and future prospects of AGN studies", Y. Kovalev (I)
09:30 - 10:00	"Quasar large scale jets: Fast and powerful or weak and slow, but efficient accelerators?", M. Georganopoulos (I)
10:00 - 10:20	"Poynting flux dissipation in jets", J. Kirk
10:20 - 10:40	"Magnetic field amplification and blazar flares", X. Chen
10:40 -11:10	Coffee break
11:10 - 11:30	"The jet of the LLAGN of M81: Evidence of Precession", A. Alberdi
11:30 - 11:50	"Evidence for internal rotation in the jet of the quasar NRAO150", S. Molina
11:50 - 12:10	"The core shift measurements for two-sided jets affected by free-free absorption using VLBA", T. Haga
12:10 - 12:30	"Astrometric observations of the core position changes in Mrk 421 after the large X-ray flare in 2011", K. Niinuma
12:30 - 12:50	"High-energy signatures of binary supermassive black holes", G. Vila
12:50 - 13:20	Conference summary by Alan P. Marscher