

Institut d'Aplicacions Computacionals i Codi Comunitari (IAC3)

Congressos d'Astrofísica

- J. L. Ballester, M. Carbonell, R. Soler, J. Terradas. The temporal behaviour of MHD waves in a partially ionized prominence-like plasma: Effect of heating and cooling. Our Mysterious Sun. Tbilisi, 09.2017.
- R. Soler, J. Terradas, R. Oliver, J. L. Ballester. Propagation of Torsional Alfvén Waves from the Photosphere to the Corona: Reflection, Transmission, and Heating in Expanding Flux Tubes. Our mysterious Sun. Tbilisi, 09.2017.
- Oliver, R. “Coronal waves and MHD oscillations”. ESPM-15: 15th European Solar Physics Meeting. Budapest, Hungria. 09.2017.
- Auchere, F., Froment, C., Antolin, P., Oliver, R., Soubrié, E., Pelouze, G., Bocchialini, K. “Discovery of periodic coronal rain: implications for coronal heating. ESPM-15: 15th European Solar Physics Meeting. Budapest, Hungria. 09.2017.
- Gurgenashvili, E., Zaqarashvili, T. V., Kukhianidze, V., Oliver, R., Ballester, J. L., Dikpati, M., McIntosh, S. W. “North-south asymmetry in Rieger-type periodicity during solar cycles 19–23”. Our mysterious Sun: magnetic coupling between solar interior and atmosphere. Ilia State University, Tbilisi, Georgia. 09.2017.
- Nelson, C. J., Freij, N., Reid, A., Oliver, R., Mathioudakis, M., Erdélyi, R. “QSEBs with co-spatial IRIS bursts”. Our mysterious Sun: magnetic coupling between solar interior and atmosphere. Ilia State University, Tbilisi, Georgia. 09.2017.
- Zaqarashvili, T. V., Oliver, R., Hanslmeier, A., Carbonell, M., Ballester, J. L., Gachechiladze, T., Usoskin, I. G. “Long-term variation in the Sun’s activity caused by magnetic Rossby waves in the tachocline” Our mysterious Sun: magnetic coupling between solar interior and atmosphere. Ilia State University, Tbilisi, Georgia. 09.2017.

Congressos de Relativitat i Gravitació

- Alicia Sintes. Invited lecture: “Gravitational Waves”. TAE (Taller de Altas Energías) International Summer School on High Energy Physics. Centro de Ciencias de Benasque Pedro Pascual, Benasque, 3-16.09.2017
- Geraint Pratten. Oral Presentation: “Phenomenological Waveform Models and Numerical Relativity”. European Einstein Toolkit Workshop 2017. Club Pollentia Resort, Mallorca, Spain, 11-14.10.2017
- Geraint Pratten. Interactive Small-Group Discussion Leader “Modular Waveforms in LAL”. LIGOVirgo Waveform Workshop. Berlin, Germany, 17-19.10.2017

- Sascha Husa, Cecilio García, Geraint Pratten, Marta Colleoni. “Progress report: Callibrating PhenomHM to numerical data”. LIGO-Virgo Waveform Workshop, Berlin, Germany, 17-19.10.2017
- Geraint Pratten. Invited Speaker: “An Overview of Results from the 1st and 2nd Advanced LIGO and Virgo Observing Runs”. IX CPAN DAYS. Santander, Spain, 23-24.10.2017
- Leïla Haegel. Attendance “LVC Parameter Estimation Workshop”. Max Planck Institute Potsdam, Germany, 28.11.2017 – 01.12.2017
- Miquel Oliver, Alicia M. Sintes. Presentation: “Digitized Power Law Tracker Presentation (DPT)” (DCC: G1800045). CW Call. 10.01.2018
- Geraint Pratten. Invited Talk: “Phenomenological Waveform Models”. Miniworkshop: “Four Challenges in Gravitational Wave Astronomy with Neutron Stars”. INFN, Università degli Studi di Parma, Parma, Italy. 16-17.01.2018
- Alicia M. Sintes. Contributed talk: “Searching for continuous gravitational-waves from spinning neutron stars”. (DCC: G1800085). Congress: Gravity@Malta 2018: “Gravitational Waves, Black Holes and Fundamental Physics”. University of Malta, Malta. 22-25/01/2018
- Carlos Palenzuela. Invited speaker: “Binary compact objects in alternative theories of gravity”. Congress: Gravity@Malta 2018: “Gravitational Waves, Black Holes and Fundamental Physics”. University of Malta, Malta. 22-25/01/2018
- Geraint Pratten, Ryan Magee, Marissa Walker. Presentation: “Parameter Estimation Update for GW170809”. (DCC: G1800160) PE Call 30/01/2018
- C. García, M. Colleoni, G. Pratten, S. Husa. Presentation: “Calibration of a multi-mode phenomenological waveform model to numerical data”. (DCC: G1800411) CBC Waveform Call 15/03/2018
- A. Ramos, G. Pratten, S. Husa, X. Jiménez Forteza, C. García Quirós, H. Estellés, D. Keitel, R. Jaume, P. Covas, P. Schmidt. Presentation: “Calibration of a multi-mode phenomenological waveform model to numerical data”. (DCC: G1800411) CBC Waveform Call 15/03/2018
- G. Pratten, S. Husa, M. Colleoni, C. García, A. Ramos, R. Jaume, X. Jiménez Forteza, D. Keitel, A. Nagar, S. Bernuzzi. Presentation: “IMRPhenomX: A Framework for Phenomenological Waveform Models”. (DCC: G1800406) CBC Waveform Call 15/03/2018
- Miquel Oliver, Alicia M. Sintes. Presentation: “Hough post-merger update”. (DCC: G1800546) LVC Meeting Sonoma State University, California, USA. 19-22/03/2018
- C. García, M. Colleoni, G. Pratten, S. Husa. Presentation: “Calibration of a multi-mode phenomenological waveform model to Numerical Relativity”. (DCC: G1800513) LVC Meeting Sonoma State University, California, USA. 19-22/03/2018
- Alicia M. Sintes. Presentation “CW Searches Overview”. (DCC: G1800487) LVC Meeting Sonoma State University, California, USA. 19-22/03/2018

- P. Covas, E. Goetz, A. Neunzert, B. Pearlstone. Presentation: “Data characterization of cleaned CO₂ h(t)”. (DCC: G1800499) LVC Meeting Sonoma State University, California, USA. 19-22/03/2018
- Pep Covas, Alicia M. Sintes. Presentation: “Setup for SkyHough all-sky analysis of O₂ data”. (DCC: G1800479) LVC Meeting Sonoma State University, California, USA. 19-22/03/2018
- Alicia M. Sintes. Invited speaker: “Searches for signals from unknown or poorly known sources”. (DCC: G1800775) INT Workshop INT-18-71W: Astro-Solids, Dense Matter, and Gravitational Waves. Seattle, United States. 16-20.04.2018
- Cecilio García. Presentation: Multi-mode frequency-domain gravitational waves model for non-precessing black-hole binaries. 8th Iberian Gravitational Waves Meeting. UIB, Palma, Spain. 7/05/2018
- Marta Colleoni. Presentation: Self-force input for binary black-hole inspirals: progress and challenges. 8th Iberian Gravitational Waves Meeting UIB, Palma, Spain. 7/05/2018
- Antoni Ramos. Presentation: A simple procedure to reduce the eccentricity of binary black hole simulations. 8th Iberian Gravitational Waves Meeting UIB, Palma, Spain. 7/05/2018
- Geraint Pratten. Presentation: IMRPhenomX: A Framework for Phenomenological Waveform Models 8th Iberian Gravitational Waves Meeting UIB, Palma, Spain. 7/05/2018
- Miguel Bezares. Presentation: Gravitational Waves of Exotic Compact Object. 8th Iberian Gravitational Waves Meeting UIB, Palma, Spain. 7/05/2018
- Pep Covas. Presentation: All-sky searches of continuous gravitational waves from isolated neutron stars 8th Iberian Gravitational Waves Meeting UIB, Palma, Spain. 7/05/2018
- Daniele Viganò. Presentation: Mergers of fermion-boson stars. 8th Iberian Gravitational Waves Meeting. UIB, Palma, Spain
- Héctor Estellés. Presentation: Lensing effects in gravitational waves from astrophysical sources: signal morphology and impact on detection. 8th Iberian Gravitational Waves Meeting. UIB, Palma, Spain 9/05/2018

Congressos sobre Tractament d’Imatges

- A. Buades, J. Duran, Flow-Based Video Super-Resolution with Spatio-Temporal Patch Similarity, British Machine Vision Conference. London, 2017.
- J. Mifdal, B. Coll, N. Courty, J. Froment, B. Vedel; Hyperspectral and multispectral Wasserstein barycenter for image fusion; IEEE Igarss, Texas EEUU, 2017.
- J. Navarro, A. Buades, “Disparity adapted weighted aggregation for local stereo”, IEEE Int. Conference on Image Processing (ICIP), Beijing, 2017.

- A. Buades, J. L. Lisani, “Dual domain video denoising with optical flow estimation”, IEEE Int. Conference on Image Processing (ICIP), Beijing, 2017.
- J. Navarro, A. Buades, “Cost Adaptive Window for Local Stereo Matching”, International Conference on Computer Vision Theory and Applications (VISAPP), Porto, 2017.
- A. Buades, J. L. Lisani, ”Denoising of Noisy and Compressed Video Sequences”, International Conference on Computer Vision Theory and Applications (VISAPP), Porto, 2017.
- Duran, A. Buades, “Nonlocal Regularizing Constraints in Variational Optical Flow”, 12th Int. Joint Conf. Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP), vol. 6, pp. 151-161, Porto, Portugal, 2017.
- O. Martorell, A. Buades, B. Coll, “Matching of line segment for stereo computation”, International Conference on Computer Vision Theory and Applications (VISAPP), Porto, 2017
- Joan Duran. MISS Workshop. “Color Aliasing Removal for Pansharpened Images. ENS Cachan, Paris, 09.05.2017.

Congressos sobre Sistemes Dinàmics

- C. Vich, R. W Berg, T. Guillamon, S. Ditlevsen, “A non-linear stochastic strategy to estimate synaptic conductances under the presence of subthreshold ionic currents”, 26th Annual Computational Neuroscience Meeting (CNS 2017), Antwerp (Bèlgica), 2017
- R. Prohens, A. E Teruel, C. Vich, “Dynamics given in slow-fast n-dimensional piecewise linear differential systems far from the folded manifold”, XXV Congreso de ecuaciones diferenciales y aplicaciones / XV Congreso de matemática aplicada (CEDYA + CMA), Cartagena (Murcia), 2017
- C. Vich, P. Massobrio, A. Guillamon, “Effects of short-term synaptic plasticity on the dynamics of a conductance-based neuronal network model”, Barcelona Computational, Cognitive and systems Neuroscience (BARCCSYN) 2017, Barcelona (Catalunya), 2017
- Guillamon, R. Prohens, A. E Teruel, C. Vich, “A first approach to estimate synaptic conductances in the spiking regime”, Third International Conference on Mathematical NeuroScience (ICMNS), Boulder (Colorado, US), 2017
- C. Vich, “Different strategies to estimate synaptic conductance’s”, Banff International Research Station for Mathematical Innovation and Discovery (BIRS), Banff, Alberta (Canada), 2017
- Deroches, M.; Guillamon, T.; Ponce, E.; Prohens, R.; Rodrigues, S.; Teruel, A. E.
- Ponència: “Canard dynamics near folded singularities in 3D piecewise linear differential systems” CEDYA + CMA, 2017, Cartagena.

Esdeveniments

	Event	Type	By	Place	Date
Relativity	2nd Institute of Space Sciences Summer School - Gravitational Wave Astronomy	Summer School	Alícia M. Sintes	Institute of Space Sciences, Campus UAB - Bellaterra, Spain	2-7/07/2018
Relativity	Firma al llibre d'honor de la UIB i entrevista a Barry Barish	Outreach	Barry Barish, Llorenç Huguet, Jaume Carot, Javier Santaolalla, Alícia M. Sintes	11 h, sala d'actes de Son Lledó, UIB, Palma, Spain	22/06/2018
Relativity	"Descubriendo los enigmas del universo"	Outreach	Barry Barish, Javier Santaolalla, Alícia M. Sintes	Auditòrium de Palma, Balears, Spain	21/06/2018
Relativity	"Encuentro con la Gran Ciencia"	Outreach	Alícia M. Sintes	Sevilla, Spain	01/06/2018
Relativity	"El albor de la astronomía de ondas gravitacionales"	Outreach	Alícia M. Sintes	Club de Mar, Palma, Spain	29/05/2018
Relativity	"Gravitational Waves: this is how the universe sounds!"	Outreach	Alícia M. Sintes	Instituto Cervantes de Londres, London, United Kingdom	22/05/2018

Relativity	Pint of Science Festival	Scientific Divulgation	Marta Colleoni, Leïla Haegel, Daniel Viganò	Palma 80's Café. Carrer de Femenies, 2. Palma, Balears, Spain	16/05/2018
Relativity	"El albor de la astronomía de ondas gravitacionales"	Speech	Alícia M. Sintes	Universidad Complutense de Madrid, Madrid, Spain	16/05/2018
Relativity	"La física al descobert"	Subject	Josep Lluís Ballester	Universitat Oberta per a Majors, Palma, Balears, Spain	14/05/2018 16/05/2018
IAC3	Ciència per a Tothom 2018	Science fest	IAC3	Campus de la UIB, Palma, Balears, Spain	10-12/05/2018
Relativity	"La física al descobert"	Subject	Alícia M. Sintes	Universitat Oberta per a Majors, Palma, Balears, Spain	09/05/2018
Relativity	"8th Iberian Gravitational Wave Meeting 2018"	Congress	IAC3 - GRG	Son Lledó, UIB, Palma, Balears, Spain	07-09/05/2018
Relativity	"Extreme Gravity Tests with Gravitational Waves from Compact Binary Coalescences:(I) Inspiral-Merger"	Journal Club	Miguel Bezares	Aula 4A, edifici Antoni M. Alcover i Sureda, UIB, Balears, Spain	03/05/2018
Computer Applications	"La física al descobert"	Subject	Joan J. Cerdà		02/05/2018 07/05/2018

Relativity	"El albor de la astronomía de ondas gravitacionales"	Outreach	Alicia M. Sintes	CosmoCaixa Barcelona	02/05/2018
Relativity	"La física al descobert"	Subject	Carles Bona	Universitat Oberta per a Majors, Palma, Balears, Spain	23/04/2018 25/04/2018 30/04/2018
Relativity	"Searches for signals from unknown or poorly known sources" INT Workshop INT-18-71W: Astro-Solids, Dense Matter, and Gravitational Waves.	Invited speaker	Alicia M. Sintes	Seattle, United States	16-20/04/2018
Relativity	"Gravitational Waves and Binary Black Holes"	Seminar	Thibaut Damour	Sala de Graus, edifici Antoni M. Alcover i Sureda, UIB	12/04/2018, 14:30 h
Relativity	"Ondas gravitacionales: así suena el universo... ¡por fin!"	Outreach	Alicia M. Sintes	Instituto Cervantes de Moscú, Moscow, Russian Federation	27/03/2018
Relativity	Scientific Session at the Real Academia de Ciencias Exactas, Físicas y Naturales	Outreach	Alicia M. Sintes	Real Academia de Ciencias Exactas, Físicas y Naturales, Madrid, Spain	14/03/2018 17:00 - 19:00
Relativity	"Como dos extraños: Mecánica Cuántica y Relatividad General"	Colloquium	Prof. Jose D. Edelstein	Sala de Graus, edifici Antoni M. Alcover i Sureda, UIB, Palma, Balears, Spain	09/03/2018 12:00

Relativity	“Las nuevas mensajeras del universo”	Outreach	Alícia M. Sintes	Facultad de Física, Universidad de Sevilla, Sevilla, Spain	01/03/2018 12:30 - 13:30
Relativity	"Clausura de la Fira de la Ciència i de la Tècnica"	Public Talk	Alícia M. Sintes	Centre Bit Alaior, Menorca, Illes Balears, Spain	24/02/2018 12:00 - 13:00
Relativity	“Ondas gravitacionales”	Outreach	Héctor Estellés Rafel Jaume	IES S'Arenal	23/02/2018 11:00-13:00
Relativity	"Reinterpreting Low Frequency LIGO/Virgo Events as Magnified Stellar-Mass Black Holes at Cosmological Distances" and "SENR/NRPy+: Numerical Relativity in Singular Curvilinear Coordinate Systems"	Journal Club	Héctor Estellés Antoni Ramos	Aula 4A, edifici Antoni M. Alcover i Sureda, UIB, Balears, Spain	22/02/2018 13:00 - 14:00
Relativity	Pròxima estació: Ciència i tecnologia	Public Talk	Alícia M. Sintes	Assembly Hall, Son Lledó Building	13/02/2018 19:00-20:00
Relativity	Round Table: “Dia Internacional de la Dona i la Nina a la Ciència”	Public Talk	Alícia M. Sintes	CaixaFòrum Palma	09/02/2018 18:30-20:00

Relativity	Gravitational waves: a new probe of the cosmos	Seminar	Leïla Haegel	Bucharest University, Romania	09/02/2018
Relativity	"Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO"	Journal Club	Pep Covas Leïla Haegel	10 Physics Laboratory, Antoni M. Alcover i Sureda Building, UIB	01/02/2018 14:00-15:30
Relativity	Gravity@Malta 2018 – Malta Café Scientifique	Public Talk	Alícia M. Sintès, Thomas Sotiriou, Vitor Cardoso, Valeria Ferrari, Leor Barack	Valletta Campus, University of Malta	24/01/2018 19:00-20:30
Astrophysics	"New Perspectives on a 70-Years Old Problem: Kinetic Simulation Study of Landau Damping"	Seminar	Adolfo F. Viñas	Seminar Room, Mateu Orfila i R. Building, UIB	19/01/2018 11:00-12:30
Astrophysics	"Hybrid modeling of local ion acceleration and relaxation in the solar corona and the solar wind"	Seminar	Yana Maneva	Seminar room, Mateu Orfila i R. Building, UIB	18/01/2018 11:00-12:30
Relativity	"Black hole kicks as new gravitational wave observables" and "The Binary Neutron Star event LIGO/VIRGO GW170817 a hundred days after merger: synchrotron emission"	Journal Club	Cecilio García Daniele Viganò	10 Physics Laboratory, Antoni M. Alcover i Sureda Building, UIB	18/01/2018 14:00-15:30

	across the electromagnetic spectrum"				
Astrophysics	"High-frequency waves and instabilities in multi-fluid partially ionized solar plasmas"	Thesis	David Martínez Gómez	Meeting room, Mateu Orfila i R. Building, UIB	17/01/2018 11:00-14:00
Relativity	Miniworkshop: "Four Challenges in Gravitational Wave Astronomy with Neutron Stars"	Invited Talk	Geraint Pratten	NFN, Universita' degli Studi di Parma, Parma, Italy	16-17/01/2018
Relativity	"Gravitational Wave Astronomy: Recent Results and Challenges for the Future"	Colloquium	Sascha Husa	ESI, Vienna	19/12/2017
Astrophysics	Threads of Prominences	Seminar	M. Montes Solís	10-11 h. Sala de seminaris. Edifici Mateu Orfila i R. UIB	13/12/2017
Astrophysics	Nonlinear waves and Heating in multifluid partially ionized solar plasmas	Seminar	D. Martínez	10-11 h. Sala de seminaris. Edifici Mateu Orfila i R. UIB	13/12/2017
Relativity	<i>Balears fa ciència</i>	TV	Grup de Relativitat	IB3 Televisió	31/12/2017
Relativity	"Las ondas gravitacionales: las nuevas mensajeras del universo"	Colloquium	Alicia Sintés	Casa de las Ciencias, A Coruña	25/11/2017

Relativity	"Las ondas gravitacionales: las nuevas mensajeras del universo"	Coloquio	Alicia Sintés	Instituto de Física Teórica UAM-CSIC	15/11/2017
Tratamiento de imágenes	Disparity adapted weighted aggregation for local stereo matching	Seminar	Julia Navarro		13/11/2017
Tratamiento de imágenes	Two strategies to estimate synaptic conductances under nonlinear effects.	Seminar	C. Vich	Department of Mathematics, University of Pittsburg	10/11/2017
Astrophysics	Turbulent Heating between 0.2 and 1 AU: A numerical study	Seminar	V. Montagud	10-11 h. Sala de seminaris. Edifici Mateu Orfila i R. UIB	07/11/2017
Relativity	"Juega con las ondas gravitacionales"	Fira de la Ciència i la Tecnologia	Grup de Relativitat	Plaça Mallorca, Inca	19-30/10/2017
Relativity	"Presentación del estado de la investigación sobre ondas gravitacionales"	Rueda de prensa	Alicia Sintés	Ministerio de Economía, Industria y Competitividad, Madrid	16/10/2017
Relativity	Gravitational waves review from isolated neutron stars	Seminar	Miquel Oliver Almiñana	14 h. Sala de seminaris del Departament de Física, UIB	10/10/2017
Astrophysics	Flow Instabilities in Partially Ionised Plasmas: Dissipative and Resonant instabilities	Seminar	J. F. Mather	11.30-12.30 h. Sala de seminaris. Edifici Mateu Orfila i R. UIB	10/10/2017

Tratamiento de imágenes	Sparse to dense optical flow with occlusion estimation	Seminar	Onofre Martorell		9/10/2017
Relativity	"Ondas gravitacionales"	Entrevista a <i>Balears fa ciència</i> en el Dia Minimúsica	Rafel Jaume	12.05 h, Es Baluard, Palma	7/10/2017
Relativity	"Las ondas gravitacionales: las nuevas mensajeras del universo"	Coloquio	Alícia Sintes	Universidad de La Laguna, Santa Cruz de Tenerife	6/10/2017
Relativity	"Fronteras de la astrofísica", en "Enciende el Cosmos 2017"	Conferencia	Alícia Sintes y Silvia Torres-Peimbert	Espacio Cultural CajaCanarias, Santa Cruz de Tenerife	5/10/2017
Relativity	"Ondas gravitacionales: ¡así suena el universo... por fin!"	Conferencia	Alícia Sintes	Conferència a la nit dels investigadors 2017	29/9/2017
Relativity	Les noves missatgeres de l'Univers	Lliçó inaugural de l'any acadèmic 2017-18	Sascha Husa	Seu universitària d'Eivissa i Formentera	29/9/2017
Relativity	Les noves missatgeres de l'Univers	Lliçó inaugural de l'any acadèmic 2017-18	Alícia Sintes	Seu universitària de Menorca	25/9/2017

Relativity	Las ondas gravitacionales: las nuevas mensajeras del universo	Conferencia en Jot Down Ciencia 2017	Alicia Sintés	Centro de Iniciativas Culturales de la Universidad de Sevilla	12/9/2017
Relativity	Les noves missatgeres de l'Univers	Lliçó inaugural de l'any acadèmic 2017-18	Alicia Sintés	Son Lledó, Palma	8/9/2017

Enllaços a pàgines web:

- <http://iac3.uib.cat/>