

IAC3 QUARTERLY NEWSLETTER

3RD QUARTER, 2024



A new home for UIB researchers

Last June, the *Complex Balear de Recerca i Desenvolupament Tecnològic* was inaugurated at ParcBit. This state-of-the-art facility brought together five research institutes affiliated with the University of the Balearic Islands (UIB), including the IAC3 to boost research capabilities, foster competitiveness, and encourage scientific collaboration. The facility covers over 10,000 m² and costs a total investment of €10.7 million, co-financed by the European Regional Development Fund (ERDF). The inauguration event was attended by the President of the Government, Marga Prohens, alongside prominent representatives from the institutional, scientific, and economic sectors.

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Grants and awards

Outstanding members

This past months, our members have been granted with numerous awards and positions. The space mission LISA from the European Space Agency will count with Anna Heffernan and Sascha Husa, from our GRAVITY team. We also found some of our members on the Webometrics Ranking of World Universities 2024, with Alicia Sintès taking the 99th place, Sascha Husa the 103rd and David B. Keitel the 271st. We congratulate Iuri La Rosa for winning the prestigious GEMMA 2 Prize for outstanding poster contribution.

Last but not least, we also congratulate our last technician, Dani Torres, who has been granted a FPU scholarship to fund his PhD studies.

New research projects

Two of our groups have received funding from the *Proyectos de Generación de Conocimiento* from the *Ministerio de Ciencia, Innovación y Universidades* and the *Agencia Estatal de Investigación*. The SOLPHYS and the SSDD groups received €125.200 each for their projects titled “Plasma processes of the Solar atmosphere” and “Dynamical systems in low dimension and applications to neuroscience”, respectively.

Newly consolidated research groups

The IAC3 now has six consolidated research groups: SOLPHYS (Solar Physics), GRAVITY (Gravitational Physics: Theory and Observation), GRAC (Gravitation, Relativistic Astrophysics, and Computing), SSDD (Dynamical Systems), MIA (Mathematics, Imaging, and Learning) and ONL (Optics and Nonlinear Sciences)

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Latest PhD thesis defended

Two new PhD students from the Astrophysics group from the IAC3 have recently graduated: Matheus Aguiar-Kriginsky, with his thesis titled "On the physical nature of

chromospheric spicules and coronal rain", directed by Dr. Ramón Julio Oliver; and Sergio Díaz, with "Nonlinear evolution of torsional Alfvén waves in solar atmospheric flux tubes", directed by Dr. Roberto José Soler.



Catalina's 60

For Catalina Sbert's 60th birthday, the Applied Mathematics groups (MIA & SSDD) gathered to celebrate the occasion with a surprise seminar titled "60 years of pixels and equations: Catalina's lifelong journey", where they shared their joint work over the years, along with plenty of anecdotes and laughter from her colleagues and PhD students.

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IAC3 on Social Media!

Now you can find us on Social Media! The Institute has recently joined [Instagram](#) as @iac3_uib, on [Facebook](#) and on [BlueSky](#) as @iac3.uib.cat, and is uploading the latest news, info on upcoming seminars, and the latest publications from our members. Contact b.garau@uib.cat if you want to post anything!



Outreach activities

The Institute has attended numerous outreach activities this past months. We attended the [European Researcher's Night \(Nit Europea de la Recerca\)](#) with a session titled "Física i Matemàtics, els tècnics d'imatge i so de l'univers"; and we also attended [Ciència a tot tren](#) with "Einstein i les seves ones revolucionant l'Univers".



Welcomes, farewells, and progress

These past months, we have had the pleasure of welcoming Julio F. Ábalos, Josep Batle, Luis Ángel Calderón, Josep Blai Covas, Onofre Martorell, Antoni Ramos and Salomón Rebollo as staff members. Matheus Aguiar-Kriginsky, Sebastià Barceló and Rodrigo Tenorio are now collaboration researchers at UIB. We also have new post-doc researchers: Quentin Henry, Alejandra Pillado, Federico Schianchi, Aditya Kumar Sharma, Yumeng Xu, Jesús Yelo; new PhD students: Miquel Cantallops, Juan Antonio Carretero,

Samuel Gómez, Josep Sebastià Sánchez, Dani Torres, Jesús Yébana; and new technical support staff: Marina Camps, Maria Antònia Ferrer, Bartomeu Garau, Arnau Montava, Maria Antònia Muñoz, Alex Gwyn O'Hare, Shrey Pareek and Natalia Sánchez.

Farewell and good retirement!

[Marc Carbonell](#), member of this house since 1995, retired this September, after outstanding work in dynamical systems and solar physics. [Pep Lluís Ballester](#), founder of the Solar Physics group at UIB and co-founder of IAC3, retired last October after more than 250 publications and a key career in the study of solar dynamics.