



Departmento di Fisica Occhialini  
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**To whom it may concern**

In my capacity as member of the Consortium Board of the ESA led mission LISA, *Laser Interferometer Space Antenna*, I hereby state in this official letter that **Prof. Pau Amaro Seoane** has been one of the most key players in the various studies on the concept of the mission, both from a scientific and strategic point of view. Prof. Amaro Seoane has been involved in the development of the mission since its early days (well before LIGO and Virgo had their first observations) and has participated in a large number of documents that we have used for the scientific support of LISA, both for ESA and NASA, which is a partner in this endeavour. These were the first joint proposal, the mission's de-scope and the new concept when NASA came back on board.

More concretely, in the last years, Prof. Amaro Seoane has participated in the document required by ESA in response to the call for missions for the L3 slot in the Cosmic Vision Programme, which led to its funding. Pau played a key leadership role.

This year, Prof. Amaro Seoane is participating as one of the key contributors to the so-called "LISA Red Book", requested by the ESA scientific panel. In addition, he has been coordinating the activity of the astrophysics working group "EMRIs", which is one of the most important gravitational wave sources of the mission.

Apart from all this, Prof. Amaro Seoane has been one of the key people who has contributed the most to create and enlarge the LISA community worldwide, in the direction and training of the youngest research personnel in various initiatives, and in promoting international workshops to foster collaborations since the very early days of LISA.

Best Regards,

Monica Colpi

Professor in Astrophysics  
Department of Physics G. Occhialini  
University of Milano Bicocca  
Member of the ESA Space Science Advisory Committee

Milano, November 18th 2022



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**To Whom It May Concern**

April 17, 2025

**Re: Confirmation Letter/ Prof. Dr. Pau Amaro Seoane as member of the GRAVITY+ Collaboration**

I am pleased to confirm that Prof. Dr. Pau Amaro Seoane is a member of the GRAVITY+ Galactic Center Collaboration. His expertise in relativistic astrophysics and general relativity, in particular gravitational waves, brings valuable insight to our collective efforts in advancing high-precision near-infrared interferometry and black hole astrophysics.

Prof. Amaro Seoane is a thoughtful and dedicated researcher, and his contributions to the collaboration have been both meaningful and constructive. His analytical approach and collaborative spirit make him a reliable and appreciated member of the team. We are fortunate to have him involved in our work, and I am confident that his participation will continue to benefit our scientific objectives.

Should you require any further information regarding his role in GRAVITY+, please do not hesitate to contact me.

Sincerely,

Reinhard Genzel

Director, Max-Planck-Institut für Extraterrestrische Physik, Garching, Germany

Professor of the Graduate School, Physics and Astronomy, University of California, Berkeley, USA

Honorary Professor in Physics, Ludwig Maximilian University, Munich



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15th December 2019

To whom it may concern,

This letter certifies that Pau Amaro Seoane is a full serving member of the LISA Consortium and the coordinator of one of our Work Packages (associated with Extreme-Mass Ratio Inspirational signals) in the team dedicated to key science interpretation.

Yours faithfully,



Dr. Martin Hewitson  
LISA Consortium Coordinator

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In cooperation with the  
Max-Planck-Institut for  
Gravitational Physics  
(Albert-Einstein-Institut)

LGWA collaboration membership  
Dr Pau Amaro-Seoane

To whom it may concern,

Herewith I acknowledge that Dr Pau Amaro-Seoane has been a member of the collaboration of the Lunar Gravitational-wave Antenna since April 2023. He is part of the gravitational-wave science and multi-messenger astronomy working group contributing to the LGWA science-case studies.

Yours Sincerely,

L'Aquila, April 15, 2025



Dr. Jan Harms  
*Professor of physics at GSSI*  
*INFN National Laboratories of Gran Sasso*

## To whom it may concern,

I am pleased to confirm that Prof. Dr. Pau Amaro Seoane leads the Modeling and Observing DENSE STellar systems (MODEST) Working Group 4 on "Stellar Collisions". In this capacity, he oversees and coordinates research activities related to stellar collisions in the context of the dynamics and evolution of dense stellar systems, including globular clusters and galactic nuclei.

Prof. Amaro Seoane brings extensive expertise to this role, with particular specialization in:

- The dynamics of compact objects in dense stellar environments
- Gravitational wave sources in stellar systems
- Numerical modeling of stellar interactions
- The evolution of star clusters and galactic nuclei

Under his leadership, Working Group 4 has made significant contributions to our understanding of stellar collisions in dense stellar systems through the organization of collaborative research projects, workshops, and conference sessions. His deep knowledge of both theoretical and observational aspects of this field has been an invaluable asset to the MODEST collaboration.

The MODEST collaboration is an international consortium of researchers working to bridge the gap between observations and simulations of dense stellar systems. Prof. Amaro Seoane's leadership in this working group demonstrates his standing as an expert in the field of dense stellar systems and his commitment to fostering collaborative research in this area.

Should you require any further information about Prof. Amaro Seoane's role in MODEST or his contributions to the field, please do not hesitate to contact me.

Sincerely, 17 Mei 2025

Prof. dr. S. Portegies Zwart

