



1<sup>ST</sup> IAA SYMPOSIUM ON

# MOON FAR SIDE PROTECTION

TURIN (TORINO), ITALY  
MARCH 21-22, 2024

- SPONSORSHIP PROPOSAL -

UNDER THE PATRONAGE OF



LOCALLY ORGANIZED BY





## Sponsorship Request for the 1<sup>st</sup> International IAA Symposium on Moon Farside Protection

We hereby submit this request to seek sponsorship for the 1<sup>st</sup> International Congress of the IAA (International Academy of Astronautics) on *Moon Farside Protection*, scheduled to take place in Turin on March 21-22, 2024. We believe that this event holds significant international value not only in the scientific field. The financial contribution that your organization could provide, crucial for the success of the event, would also be a significant recognition and honor.

The Symposium will be free for all participants and is primarily aimed at the academic community, scientists, international organizations, space agencies, space industries, and students. Additionally, the entire Symposium will be streamed online.

Below, we briefly summarize some key elements of the Symposium to highlight its importance and reasons for interest among all potential stakeholders.

On the last page, the three sponsorship plans are outlined, with key features including: visibility on communication channels, speaking opportunities during the Symposium, and targeted networking during the gala dinner.

### THE IMPORTANCE OF THE MOON FAR SIDE

The Moon has the unique property of naturally shielding radio waves generated by human activities on Earth and around it. This results in a wide radio silence zone on and above its Farside, called *Shielded Zone on the Moon (SZM)*.

Therefore, the Farside becomes a region of utmost scientific interest, as it provides an environment free from the electromagnetic pollution typical on Earth. In particular, some of the branches of science that would greatly benefit from operating from the Farside are: Cosmology, Astrobiology, Planetary Defense, and SETI/Technosignatures.

1. COSMOLOGY – To detect the extremely feeble radiation of the hydrogen line at 1420 MHz, down-shifted to much lower frequencies, MHz or kHz, due to the 14 billion years of universe expansion. The radio silence of the Farside would ensure a significant leap forward in research.
2. ASTROBIOLOGY – To study pre-biological interstellar molecules through their roto-vibrational spectra: a fine search for weak spectral lines that can be supported by advanced radio telescopes in combination with the radio silence of the Moon Farside.
3. PLANETARY DEFENSE – From the Moon Farside, radar and optical telescopes can be used for accurate measurements, without interference, of the main parameters of NEOs (Near-Earth Objects) to increase the lead time.
4. SETI/TECHNOSIGNATURES – To search, with very low noise, for "signatures" of Alien Civilizations that would reach us extremely faint due to the vast distances between stars in the Milky Way, if not from other galaxies.





## WHY THIS SYMPOSIUM?

In December 2021, IAA established a new Permanent Committee devoted to the Moon Farside Protection. This new Committee is chaired by Prof. Claudio Maccone, one of the Technical Directors of the IAA, and co-chaired by Prof. Jack Burns of the University of Colorado at Boulder (USA).

Furthermore, in September 2022, the first Special Session on Moon Farside Protection was held during the International Astronautical Congress (IAC) in Paris, organized by Prof. Claudio Maccone and Prof. Jack Burns, and it will be held again in October 2023 during the IAC in Baku.

To further raise the level of international attention and involvement on this topic, Prof. Claudio Maccone conceived the first-ever international Symposium on Moon Farside Protection, to be held in 2024 in Turin (Torino, Italy), chosen for its significant space tradition.

Recent lunar missions and, even more so, upcoming programs will bring more and more artificial systems around and on the lunar surface, occupying space and emitting radio waves at various frequencies.

This Symposium is thus designed to sensitize and openly involve the global scientific, political, and industrial community on the need to preserve radio silence on the Farside at frequencies relevant for scientific purposes. It aims to prevent future missions from irreversibly compromising the current condition of radio quietness.

Moreover, to ensure the possibility of performing scientific activities, there is a desire to establish a portion of the Farside exclusively dedicated to science, a *protected area*.

As known, there are already various international regulations and resolutions aimed at protecting the SZM (ITU Radio Regulations, ITU-R REC RA.479-5, and SFCG Resolution 23-5 can be mentioned as examples). However, it is of paramount importance to take a further step, both to extend the protected frequencies to encompass all other scientifically relevant ones (in addition to those already included) and to preserve a portion of the farside exclusively for scientific installations. Furthermore, there is a pressing need to elevate these regulations into enforceable and binding treaties for every Space Agency and private company.

All objectives can only be pursued and achieved through diplomatic efforts involving spacefaring nations (current and future) from around the world. The IAA Committee aims at initiating this process during the Symposium with the support and contribution of all scientists, international organizations, space agencies, and private companies participating.

The ultimate goal is to reach a future, hopefully soon, international agreement, ideally under the auspices of the United Nations and its relevant specialized Organizations, such as ITU and COPUOS.

## LOCAL ORGANIZING COMMITTEE

- *Claudio Maccone* (Chair) – IAA & INAF
- *Nicolò Antonietti* – IAA & INAF
- *Luca Derosa* – iMEX.A & University of Turin
- *Christian Maria Firrone* – Polytechnic of Turin

*Notes:* INAF = National Institute for Astrophysics (Italy); iMEX.A = Aerospace Engineering Company (Italy)

## PATRONAGES

International Telecommunication Union (ITU) – International Astronomical Union (IAU)

Università di Torino (University of Turin) – Accademia delle Scienze di Torino (Academy of Sciences of Turin)





## DRAFT PROGRAM

The following is the provisional program that outlines the organizations and topics proposed by the Organizing Committee, where you can see highlighted in yellow the slot dedicated to companies that decide to sponsor the Symposium with the Platinum package.

	TOPIC/ORGANIZATION	INVITED SPEAKER	AFFILIATION/ROLE
<b>MARCH 21</b>			
<b>MOON FARSIDE PROTECTION (MFP) INTRODUCTION</b>			
8.30-9.15	REGISTRATION		
9.15-9.30	Welcome and Opening remarks	Jean-Michel Contant	IAA Secretary General
9.30-10.00	IAA Welcome Address & Prospects on MFP	Claudio Maccone	IAA Technical Director
10.00-10.15	Institutional interventions	Alberto Cirio + Stefano Lo Russo	President of Piedmont Region + Mayor of Turin
10.15-10.30	ASI Welcome Address & Prospects on MFP	TBD	
10.30-10.45	INAF Welcome Address & Prospects on MFP	Marco Tavani	INAF President
10.45-11.00	AIDAA Welcome Address & IAC 2024 Presentation	Erasmus Carrera	AIDAA President
11.00-11.30	COFFEE BREAK		
11.30-11.45	UniTo Welcome Address & Prospects on MFP	Stefano Geuna	Rector of University of Turin
11.45-12.15	The International Challenge of Moon Farside Protection	Claudio Maccone	IAA Technical Director
12.15-13.00	Prospects on Moon Farside Protection	Aziende sponsor platinum	
13.00-14.20	LUNCH		
<b>SCIENCE ON THE FARSIDE</b>			
14.20-14.30	Introduction	Claudio Maccone	IAA Technical Director
14.30-15.00	Radio telescopes on the far side	Joseph Silk (Cosmology)	The Johns Hopkins University and Institut d'Astrophysique de Paris
15.00-15.30	Astrobiology	Rocco Mancinelli	BAER Institute
15.30-16.00	Planetary Defense	Ian Carnelli	HERA Project Manager at ESA
16.00-16.30	COFFEE BREAK		
16.30-17.00			
17.00-17.30	SETI/Technosignatures	Mike Garrett	Director of Jodrell Bank Centre for Astrophysics, University of Manchester
17.30-18.00	Landing on the farside: Chang'e 4 mission	Ji Wu	General Director of National Space Science Center, Chinese Academy of Sciences
18.00-18.30	Observing the Early Universe from the Moon's Far Side at Low Radio Frequencies	Jack Burns	Director, NASA/SSERVI Network for Exploration & Space Science
<b>MARCH 22</b>			
<b>INTERNATIONAL ORGANIZATIONS</b>			
8.50-9.00	Introduction	Claudio Maccone	IAA Technical Director
9.00-9.30	UNOOSA-COPUOS	Aarti Halla-Maini	Director
9.30-10.00	IISL	Kai-Uwe Schrogl	President
10.00-10.30	A Lunar Policy Decalogue for Safe and Sustainable Lunar Development	Antonino Salmeri	Director of Lunar Policy Platform
10.30-11.00	IAU (Working Group on Lunar Protection)	Richard Green	Chair
11.00-11.30	COFFEE BREAK		
11.30-12.00	CORF+CRAF+RAFCAP	Nathaniel Livesey + Gyula Jozsa + Balthasar Indermuehle	
12.00-12.30	SFCG	TBD	
12.30-13.00	ITU	Vadim Nozdrin	Counsellor of ITU-R Study Group 7 on Scientific Services
13.00-14.20	LUNCH		
<b>SPACE AGENCIES AND PRIVATE COMPANIES</b>			
14.20-14.30	Introduction	Claudio Maccone	IAA Technical Director
14.30-14.50	ESA Frequency Management	Edoardo Marelli	ESA Frequency Management
14.50-15.10	NASA	Cathy C. Sham	NASA Lunar Spectrum Manager
15.10-15.30	JAXA	Yamakawa Hiroshi	President
15.30-15.50	CNSA	Liu Jizhong	Director of China Lunar Exploration and Space Engineering Center
15.50-16.10	ISRO	Shri S. Somanath	Director
16.10-16.40	COFFEE BREAK		
16.40-17.10	Nokia Bell Labs	Luis Maestro	Technical Manager of Lunar Constellation Project
17.10-17.40	SSTL	Andrew Haslehurst	CTO
17.40-18.30	ROUND TABLE	All speakers	

## CONTACTS

For any information request or to discuss sponsorship arrangements, please contact the Local Organizing Committee at the email [desk@moonfarsideprotection.org](mailto:desk@moonfarsideprotection.org)



# SPONSORSHIP PLANS

## PLATINUM

- Logo on all materials
- Name and logo on Symposium social media and website
- Company description on Symposium website
- Company video on Symposium website
- Logo on roll-up banners during the Symposium
- Logo always with an increased size
- Company presentation on USB for all participants
- 2 seats at the gala dinner with choice of table (networking)
- Speaking slot during the Symposium with live streaming

**10.000 €**

## GOLD

- Logo on all materials
- Name and logo on Symposium social media and website
- Company description on Symposium website
- Logo on roll-up banners during the Symposium
- Company presentation on USB for all participants
- 1 seat at the gala dinner

**4.000 €**

## SILVER

- Logo on all materials
- Name and logo on Symposium social media and website
- Logo on roll-up banners during the Symposium

**1.000 €**



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