

- **Date sent:** 25 January 2022, 20:00
- **From:** Monica Orienti and Bong Won Sohn (SOC Chairs of FM1)
- **To:** Division J Galaxies and Cosmology
- **Subject:** First Announcement of "Physics of relativistic jets on all scales" Focus Meeting 1 of IAUGA2022

Dear colleagues,

We are pleased to announce the IAU Focus Meeting "Physics of relativistic jets on all scales" will be held in the context of the IAU General Assembly 2022 in Busan, Republic of Korea.

Please find more information about the meeting at the website.  
Website of the Focus Meeting: <http://ga2022-fm1.kasi.re.kr/>

Registration and abstract submission should be made at IAU GA webpage.  
Website of IAUGA 2022: <http://www.iauga2022.org/>

#### Important dates

Abstract Submission Deadline: Mar. 31st 2022  
Early Bird Registration: Jan. 1st - Feb 28th 2022  
Regular Registration: Mar. 1st - May 31st 2022  
IAUGA 2022: Aug. 2nd - 20th 2022  
The Focus Meeting will take place on August 4th and 9th.

#### Scientific rationale

The goal of this Focus Meeting is to bring together experts in observational, theoretical and computational astrophysics with the aim of promoting our understanding of the physics of relativistic jets. Relativistic jets are among the most powerful manifestations of the energy released by compact objects on galactic and extragalactic scales. Non-thermal processes operating in jets are responsible for multi-messenger emissions, such as broadband electromagnetic radiation and high-energy neutrinos, and synergies can be drawn with gamma-ray bursts and gravitational wave emitters. Despite much effort, aspects of jet physics, such as the launching mechanism, jet collimation, high-energy emission, the life-cycle of jets, and the impact on the surrounding medium remain in debate. A combined and comprehensive approach, including observational, numerical and theoretical work is required to tackle the open issues. This meeting will discuss recent and forthcoming developments in observing techniques across the electromagnetic spectrum (e.g. EHT, SKA-VLBI, ALMA, LSST, JWST, and CTA) and in numerical simulations that will be a step forward in our

Confirmed invited speakers

Kazuhiro Hada (NAOJ)  
Jongho Park (ASIAA)  
Elisabete de Gouveia dal Pino (U Sao Paulo)  
Andrew Chael (Princeton U)  
Dipanjan Mukherjee (IUCAA)  
Francoise Combes (Obs de Paris)  
Tao An (Shanghai Obs)  
Andrew Fabian (U Cambridge)  
Z. Lucas Uhm (KASI)  
Susumu Inoue (RIKEN)  
Maria Rioja (ICRAR)  
Matteo Guainazzi (ESA)  
Filippo D'Ammando (INAF/IRA Bologna)

SOC members

Markus Boettcher (North-West U)  
Heino Falcke (Nijmegen U)  
Gabriele Giovannini (U Bologna)  
Marcello Giroletti (IANF/IRA Bologna)  
Jose' L. Gomez (IAA-CSIC Granada)  
Svetlana Jorstad (Boston U)  
Taehyun Jung (KASI)  
Raffaella Morganti (ASTRON)  
Masanori Nakamura (NIT Hachinohe)  
Lara Nava (INAF/OA Brera)  
Monica Orienti (INAF/IRA Bologna), Co-Chair  
Maria Petropoulou (U Athens)  
Bong Won Sohn (KASI), Co-Chair  
Diana M. Worrall (U Bristol)