



One (1) Post Doc position in the project

“SMILE”

Search for Milli-lenses to discriminate between dark matter models

(Call: ERC-2021-STG, GA 101040021)

Funded under HORIZON.1.1 - European Research Council (ERC)



**Funded by
the European Union**

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The Institute of Astrophysics (IA) of the Foundation for research and Technology Hellas (FORTH), in the framework of the project SMILE, (Call: ERC-2021-STG, Proposal number: 101040021) funded under HORIZON-EUROPE.1.1. - European Research Council (ERC) is seeking to recruit one (1) Postdoc position.

Title: Polarimetric observations of milli-lens candidates.

Job Description

Postdoctoral position in optical and radio polarimetric observations and data analysis. The candidate will have to carry on an optical and radio polarimetric monitoring of sources that i) have been previously judged as genuine milli-lens candidates within the SMILE project, or ii) have been discarded as milli-lenses but given the peculiarity of their VLBI radio morphology and their spectral properties, they can be classified as supermassive binary black hole (SMBBH) candidates. Polarization, expected to be preserved in lensed images, is a powerful discriminant between gravitational lens systems and other astrophysical objects similar in morphology and physical parameters but intrinsically different in nature, i.e. SMBBHs. On the other hand, a highly variable linearly polarized emission could hint the presence of dual active nuclei (e.g. Gupta et al 2023 ApJL 957 L11). The candidate will participate in optical polarimetric observations at the 1.3 mt telescope of the Skinakas Observatory (Crete).

Required qualifications

* The successful candidate needs to have a PhD degree in Astrophysics (or completed all requirements for the degree), a good knowledge of active galaxies (agn) physics, and past experience on polarization data analysis and observations. Good programming skills are also required.

- Scientific publications relevant to polarization studies in international scientific journals (40%)
- Observing experience with optical polarimeters (40%)
- Experience with programming languages (20%)

Location: IA - FORTH, Heraklion Crete GREECE

Start Date: June 1, 2024

Project Duration: 12 months with possibility of extension according to the needs of the project and availability of funds

Monthly salary: 2400 euros (gross)

Application Submission

Interested candidates who meet the aforementioned requirements are kindly asked to submit their applications, no later than **April 20th, 2024, 23:59 local Greece time** to the address (info@ia.forth.gr), with cc to Dr. Carolina Casadio (ccasadio@ia.forth.gr).

In order to be considered, the application must include:

- Application Form (please download file from the job announcement webpage <https://www.ia.forth.gr/employment-opportunities>)
- Brief CV with publications
- Scanned copies of academic titles

Any application received after the deadline will not be considered for the selection

Contact

For information and questions regarding the application and selection procedure, candidates are asked to contact the secretariat (info@ia.forth.gr), tel. +30 2810-394200.

For information and questions about the advertised position and the research activity of the group or the institute, please contact Dr. Carolina Casadio (ccasadio@ia.forth.gr).

Evaluation procedure

Applications will be evaluated by a three-member evaluation committee. In case of interview procedure, applicants will be invited to participate in person or teleconference.

In case of titles and qualifications awarded by foreign Higher Education Institutions, the provisions of the Law 55/2023 (article 36) and 4957/2022 (article 304) are implemented.

The results of the selection will be announced on the website of IMBB-FORTH. Applicants have the right to appeal the selection decision, by addressing their written objection to the IA secretariat within five days since the results announcement on the web. Objections are submitted in one of the following ways: in person, by an authorized person, by post, by courier. They also have the right to access (a) the files of the applicants as well as (b) the table of applicants' scores (ranking of applicants results). All the above information related to the selection procedure will be available at the secretariat of IA-FORTH in line with the Hellenic Data Protection Authority. Access to personal data of co-applicants shall be limited to personal data (and relevant data) and supporting documents which have been the basis of the evaluation of the applicants for the specific post(s). Prior to the announcement of the personal data and/or documents of the co-applicants to the applicant, FORTH will inform the data subjects in an appropriate way.

The selected applicants will be notified personally regarding the success of his/her application and will be requested to submit certified copies of his/her degrees. If the submitted documents do not agree with the original application, the applicant will be dismissed.

GDPR Disclaimer

FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data. FORTH processes the personal data and relevant supporting documents that you have submitted to us. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law. Under the Regulation EU/2016/679 applicants have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws. We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

Applicants have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.