Report on the outcomes of a presentation and participation - Young Researcher and Innovator Conference[1]

Action number: CA21126

Grantee name: Maëva Louis

Conference Details

Conference title: Exploring the aromatic universe in the JWST era

Conference web-page: https://www.aromaticuniverse.space/

Conference venue[2]: Western University London, Canada

Accepted contribution details

Title of the presentation: Substituted PAHs in space: a laboratory study of the electronic signatures of oxanthrene and thianthrene

Type of the presentation: poster

Co-authors: Alexander Tielens; Alessandra Candian; Annemieke Petrignani

Other details of the presentation: Poster with the number 2.5, presented during the poster sessions on Tuesday 7/07/2026, Thursday 9/07/2026 and more informally during some coffee breaks throughout the week.

Outcome of the conference participation

Description of the outcome of the presentation of the accepted contribution, in terms of grantee's visibility, including the establishment of new contacts for future collaborations

(max.500 word)

Attending this "Aromatic Universe" conference was highly valuable for me in two ways:

First, the opportunity to follow numerous talks and posters on a topic that completely aligns with the scope of my research allows a deeper understanding of the most recent progresses and their implications. The discussions I had during the conference enabled new ideas related to aromatic molecules in space, which also aligns with the objectives of the COST Action Nanospace.

Second, presenting my work about the electronic spectroscopy of oxygen- and sulfur- bearing PAHs (Polycyclic Aromatic Hydrocarbons) in a poster provided great opportunities for scientific exchanges. As such species are growing interest in the last few years, and given that James Webb Space Telescope has a resolution high enough to potentially identify such spectral contributions, their study is very much on topic. I received lot of feedback and scientific discussions on my research from a wide

[1] This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the Grant Holder Manager to verify the grant documents compliance and proceed with the payment.

[2] For an online conference, specify virtual participation; for hybrid conferences, specify whether it is an in-person or virtual participation.

range of participants, from PhD candidates to professors. As I am an experimentalist, attending this multidisciplinary conference enabled me to get another perspective on the field thanks to exchanges with observers and theoreticians enabled by my poster presentation. Specifically, a discussion with a theoretician helped with advice on a theoretical challenge related to OPAHs calculations I am currently facing. Another conversation, with a postdoctoral researcher and a professor working on astronomical observations offered valuable complementary insights about the diffuse interstellar bands. Future collaborations have also been discussed, including meeting with the EDIBLES program members.

To summarize, participating in this conference and presenting a poster led to lot of new potential collaborations, new ideas and new insights for my research while expanding my scientific network and enhancing my visibility as a researcher.

Acknowledgement of inclusion of necessary supporting documents to claim the grant

I confirm that the following documents have been uploaded on e-COST as an integral part of this report:

- the certificate of conference attendance issued by the conference organiser.

- the book of abstracts indicating the presentation (poster) of the grantee: https://www.aromaticuniverse.space/wp-content/uploads/2026/07/Abstract_Book_v13.pdf (abstract 2.5)