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

Action number: CA21126

Grantee name: Lars Reems

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, Ontario, Canada

Accepted contribution details

Title of the presentation: *ALPAHCAS*: Computing Anharmonic Spectra of Polycyclic Aromatic Hydrocarbons (PAHs) from Absorption to Emission

Type of the presentation: (**oral**/poster)

Co-authors: Alessandra Candian, Evert Rol, Vincent Esposito, Inga Kamp, Wybren Jan Buma & Alexander Tielens

Other details of the presentation: specify here any additional details related to the contribution (e.g. title of the session / track of the conference programme in which the contribution is accepted): 15min + 5min questions.

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)

It was great to give a talk during this conference. Many people that were in the audience are very relevant to my field, and this talk gave me the opportunity to make my work visible. I presented my code ALPAHCAS and showcased the results of two science cases. After my talk, I had plenty of people approaching me saying they liked the talk, asking questions, and showing interest in using the code. It was very useful to get to know many people in this community, even in a non-science manner. Nevertheless, of course the science discussions I had with people were the most interesting, and I created the opportunity for 3 (potential) collaborations. One professor approached me a few days after my talk and asked me to have a look at her poster. This was a laboratory study, and she used simple calculations to verify/compare her results. She asked if she could reach out to me later so I could perform more accurate/detailed calculations with my code. The second instance was a PhD-candidate that had a poster more on the observational side. She showed me her poster, and we saw some

[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.

interesting spectral agreement with her observations and my computations. We discussed this with our supervisors and decided to keep in contact. The third instance was when I was chatting with a professor who will do laboratory work on very similar molecules that I study. She mentioned that I could be involved in this, since it makes sense to compare our results. My supervisor and I also discussed potentially visiting Western University later in my PhD to learn more about using observational data. Perhaps what was the most insightful in the conference week was talking with other (more senior) computational astrochemists. They really do amazing work, and it was amazing to discuss science with them and to chat about common struggles/issues. Lastly, I also just had a very educational and very fun week!

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 programme of the conference or book of abstracts / proceedings indicating the presentation (oral or poster) of the grantee.