

**V Meeting on Astrophysical Spectroscopy -  
A&M DATA - Astronomy & Earth Observations**

September 12 - 15, 2023, Palić, Serbia

**BOOK OF ABSTRACTS AND  
CONTRIBUTED PAPERS**

**Edited by Vladimir A. Srećković, Milan S. Dimitrijević,  
Aleksandra Kolarski, Zoran R. Mijić and Nikola B. Veselinović**

**A&M DATA**



UNIVERSITY OF BELGRADE  
INSTITUTE OF PHYSICS | BELGRADE  
NATIONAL INSTITUTE OF  
THE REPUBLIC OF SERBIA

Belgrade 2023

# *Progress Reports*

## **COST programme role within the Serbian multilateral collaboration in science and innovation framework**

**Bratislav P. Marinković and Zoran R. Mijić**

*Institute of Physics Belgrade, Pregrevica 118, 11080 Belgrade, Serbia  
E-mail: bratislav.marinkovic@ipb.ac.rs*

COST – Cooperation in Science and Technology is a networking programme fully financed by the European Horizon frameworks (H2020 and HE) with the aim to foster collaboration of researchers and innovators within European countries and to contribute to the creation of European Research Area (ERA). Its main priorities are to promote and spread excellence, to foster interdisciplinary research through breakthrough science and to empower and retain young researchers and innovators. Although COST programme does not finance the research itself (it is lean on the national funding schemas of all 41 participating countries) it enables wide collaboration and networking through general or working group meetings, short term scientific missions, training schools and management meetings.

In 2022 Serbian researchers performed an individual participation in more than 750 COST Action activities. COST Actions generally last for four years, up to now, Serbian researchers chaired and co-chaired 23 Actions and participated in total of 928 Actions (<https://www.cost.eu/about/members/serbia/>). The broader statistics of Serbian participation in COST Actions can be found in Marinković et al. (2022).

### **Acknowledgements**

Thanks are due to The Ministry of Science, Technological Development and Innovation of the Republic of Serbia and the Institute of Physics Belgrade for national COST office support.

### **References**

Marinković, Bratislav P., Ivanović, Stefan and Mijić, Zoran, “Data analysis on Serbian participation in COST Actions: Celebrating 50 years of research networks”, IV Meeting on Astrophysical Spectroscopy - A&M DATA - Atmosphere, May 30 to June 2, 2022, Fruška Gora, Serbia, Book of Abstracts and Contributed Papers, Eds: V. A. Srećković, M. S. Dimitrijević, N. Veselinović and N. Cvetanović, (Institute of Physics Belgrade, Belgrade, 2022), Progress report, pp.49-57. ISBN: 978-86-82441-57-1

## **Interdisciplinary research in the European Cooperation in Science and Technology – advantage or disadvantage?**

**Zoran R. Mijić and Bratislav P. Marinković**

*Institute of Physics Belgrade, Pregrevica 118, 11080 Belgrade, Serbia  
E-mail: zoran.mijic@ipb.ac.rs*

Collaboration is at the heart of modern science while interdisciplinary research plays a very important role in addressing some of the most important and complex problems. The European Cooperation in Science and Technology – COST is the oldest intergovernmental funding organization in Europe with the aim to establish the research networks among scientists and innovators. Two years ago, COST celebrated 50 years of the existence and successful networking activities. During that period COST has become one of the best mechanisms to promote science cooperation in the world. For establishing a collaboration proximity is particularly important, but once a collaboration is in place scientists manage to continue a collaboration despite a large distance. COST Actions support a variety of networking tools enabling spatial and social proximity thus increasing the level of scientific production.

In this paper review of available data on the effects of participating in a COST Action on the level of scientific production i.e., scientific co-publications between active members of an Action is given (Seeber et al., 2022a). In addition, the interdisciplinary nature of co-publications and involvement of researchers from inclusive target countries as well as young researcher is discussed. Since researcher from Serbia are involved in almost 96% of active Actions (Mijić and Marinković, 2022) it is particularly important to assess whether these effects persist after the life time of the Action.

Regarding the multidisciplinary of the new Actions approved in 2023, 54% of them cover at least two fields of science and technology, while 11% cover at least three fields. Natural sciences are represented in 49% of the Actions leading the way as the most represented field of science. Therefore, additional discussion will be given for better understanding whether Actions proposals' degree of interdisciplinarity and the relative proportion of different scientific fields, may be disadvantage or not in the project evaluation procedure in the COST research framework (Seeber et al., 2022b).

## **Acknowledgements**

Thanks are due to The Ministry of Science, Technological Development and Innovation of the Republic of Serbia and the Institute of Physics Belgrade for national COST office support.

## **References**

- Mijić, Z., Marinković, B., 2022, IV Meeting on Astrophysical Spectroscopy - A&M DATA - Atmosphere, Book of Abstracts and Contributed Papers, Eds: V. A. Srečković, M. S. Dimitrijević, N. Veselinović and N. Cvetanović, pp.74-80.
- Seeber, M., Vlegels, J., Seeber, M., 2022a, 26<sup>th</sup> International Conference on Science and Technology Indicators, Proceedings, Eds: N. Robinson-Garcia, D. Torres-Salinas, W. Arroyo-Machado, sti2239
- Seeber, M., Vlegels, J., Cattaneo, M., 2022b, J. Assoc. Inf. Sci. Technol. 73, 1106

CIP - Каталогизација у публикацији  
Народна библиотека Србије, Београд

52-355.3(048)

533.92:537.228.5(048)

539.184.27(048)

550.38(048)

**MEETING on Astrophysical Spectroscopy - A&M DATA - Astronomy & Earth Observations (5 ; 2023 ; Palić)**

Book of abstracts and contributed papers / V Meeting on Astrophysical Spectroscopy - A&M DATA - Astronomy & Earth Observations, September 12 - 15, 2023, Palić, Serbia ; edited by Vladimir A. Srećković ... [et al.] ; [organizers Institute of Physics Belgrade, Serbia]. - Belgrade : Institute of Physics, 2023 (Beograd : Skripta Internacional). - 91 str. : ilustr. ; 24 cm

Tiraž 50. - Bibliografija uz većinu apstrakata. - Registar.

ISBN 978-86-82441-61-8

а) Астрофизика – Апстракти б) Плазма – Спектрална анализа – Апстракти  
в) Штарков ефекат – Апстракти г) Магнетизам земље – Апстракти

COBISS.SR-ID 123774729