



Postdoctoral position in Astrophysics (f/m/x)

Institute of Physics I | CRC 1601

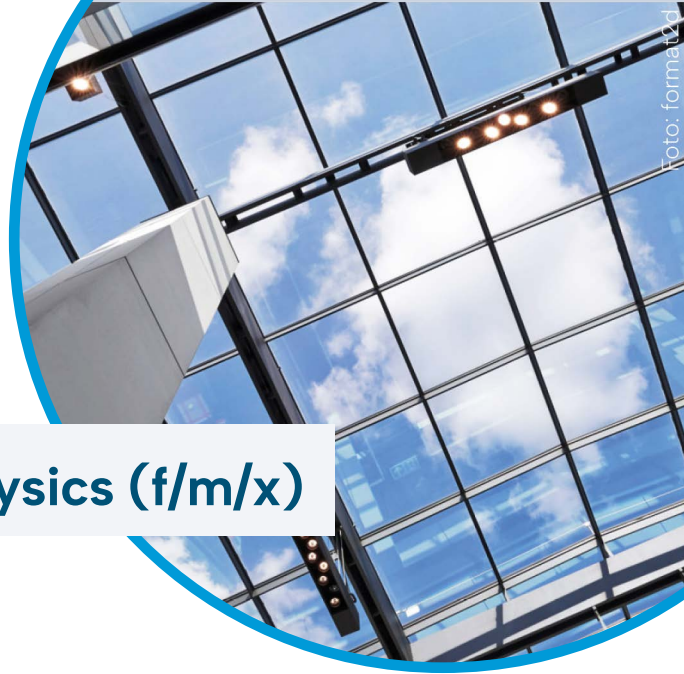


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We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The Collaborative Research Center 1601 (CRC 1601: <https://sfb1601.astro.uni-koeln.de>) is a joint venture of the I. Physics Institute (University of Cologne), the Regional Computing Centre Cologne, the Argelander Institute for Astronomy (University of Bonn), the Max Planck Institute for Radio Astronomy (Bonn) and the Forschungszentrum Jülich. Our research on the 'Habitats of Massive Stars across Cosmic Time' combines four methodological pillars: observational astronomy, instrumentation, laboratory astrophysics, and computational astrophysics.

YOUR TASKS

You will work within the theoretical astrophysics group of Prof. Walch.

Research on the topic of the habitats of massive stars across cosmic time within CRC 1601, more specifically:

- » Code Development
- » Simulations related to massive star formation and feedback and analysis thereof
- » Possibly synthetic observations
- » First-author publications of the results and co-author publications in collaboration with other members of the team
- » Presentation of the results at conferences and workshops.

Teaching (4 hours per week)

- » Independent teaching of courses in the physics MSc and BSc at the University of Cologne
- » related teaching coordination (e.g. preparation of lecture notes and scripts, organisation of seminars, tutorials and exams).
- » (Co-)supervision of BSc. and MSc. projects is a possibility.
- » Other support of CRC 1601 scientific coordination e.g. (co-)organising and joining retreats and regular meetings.
- » Engagement in the support structure parts of the CRC i.e. diversity, early career support, sustainability, governance, and outreach is welcome.

YOUR PROFILE

- » You have a PhD or equivalent in physics/ astrophysics / astronomy or comparable.
- » You enjoy teaching courses in physics and astronomy and ideally you have some experience in doing so.
- » You are fluent in English (written and spoken) and, ideally, also in German.
- » You can think analytically and work independently, systematically and constructively.

- » You have experience in writing research papers and scientific grant proposals.
- » You are highly motivated to work in a vibrant, multicultural collaboration.

WE OFFER

- » a state-of-the-art research environment and vibrant team
- » A diverse working environment with equal opportunities
- » Support in balancing work and family life
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Flexible working time models, full-time positions suitable for job sharing
- » Opportunity to work remotely

The University of Cologne promotes equal opportunities and diversity. Women will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from all suitable candidates regardless of their gender, nationality, ethnic and social origin, religion, disability, age, sexual orientation and identity.

The position is available from 15.03.2025 on a full-time basis (39,83 hours per week). The position is to be filled for a fixed term until 30.06.2027. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

Please apply online with proof of the required qualifications without a photo under: <https://jobportal.uni-koeln.de>. The reference number is Wiss2411-16. The application deadline is 06.01.2025. For further inquiries, please contact Professor Dr Walch-Gassner (walch@ph1.uni-koeln.de) and take a look at our [FAQs](#).

Applications must include a cover letter, CV, certificates, publication list, a research statement (max. 2 pages) and teaching statement (max. 1page). Please arrange for two letters of recommendation to be sent directly via email to: sfb1601-application@ph1.uni-koeln.de by the application deadline.