



The Space-Based Astrophysics (SBA) group of the Institute for Astronomy & Astrophysics at the University of Tübingen (IAAT) has an opening for a

**Position for doctoral studies (66% E13 TV-L for 3 years)
in stellar X-ray astronomy.**

The scientific theme of the project is a study of magnetic activity in nearby stars. Based on dedicated observing programs carried out with the X-ray observatory XMM-Newton the full range of stellar activity levels will be explored from superflares to coronal holes and Maunder Minimum states. The Sun-as-an-X-ray-Star technique will be used for a direct comparison between solar and stellar data that will put the solar activity in a broader context. Complementary data from the Transiting Exoplanet Survey Satellite (TESS) will be exploited to extract rotation periods and optical activity signatures. The characterization of the fundamental parameters of the studied stellar samples will be based on data from the Gaia mission.

The successful applicant will be a member of the research group *Space Based Astrophysics* of Eberhard Karls Universität Tübingen led by Prof. Beate Stelzer which has its focus on multi-wavelength observations of the formation and evolution of low-mass stars and brown dwarfs.

The applicant must have a master or equivalent degree in physics or astrophysics. Expertise with X-ray data analysis and a background in studies of stellar activity are useful.

The position will be funded for a **duration of 3 years** (36 months). Salary will be according to 66% E13 of the TV-L of the German public services. The application is expected to consist of a CV (including personal data, formation, skills and expertises), a publication list if applicable, copies of university degrees and a brief (1-2 page) statement of previous research experiences and motivation. The names and e-mail addresses of two references must be included in the application. The **deadline for applications is July 1, 2024** with a starting date of Oct 1, 2024.

Eberhard Karls Universität Tübingen is committed to increasing the percentage of women in research.

In case of equal qualification preference will be given to applicants with disabilities.

Employment takes place via the Central Administration of the University.

Contact for application and further information:

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