



The Institute of Astronomy and Astrophysics (IAAT) of the Kepler Center for Astro and Particle Physics at the University of Tuebingen, Germany, invites applications for an

## Experimental Astro-Physicist (m/f/d, 100% E13 TV-L)

The position is expected to be filled from the 1<sup>st</sup> of January 2025 and the initial appointment will be for **3 years**. The position is a “**wissenschaftliche Mitarbeiterstelle**”, remuneration is in accordance with pay grade E13 (100%) of the German public-sector collective agreement TV-L.

The planned work will take place as part of the **ATHENA** project, one of the candidates for ESA’s large observatories. Tasks comprise different aspects of electronics development, which are carried out by the high energy astrophysics section of the institute. The successful candidate is an outstanding experimental physicist with a Doctoral title in Astrophysics / Physics or with a very good Master degree (or equivalent) with a focus on electronics.

We require a **solid background in digital electronics development** and **substantial experience in the layout of PCBs**. We expect a deep knowledge of **FPGA** related workflows and familiarity with hardware description languages like **VHDL** and the respective development environments (Xilinx, Microchip). In addition, candidates should be experienced in the design- and manufacturing-processes for multi-layer PCBs with current layout software tools. Presentation and documentation of the work results in project meetings across Europe is another essential part of the assignment. A background in space research or additional knowledge in the fields of microcontrollers, embedded systems and ethernet protocols is considered an asset.

The High Energy Astrophysics Group of IAAT has a wide range of interests, including experimental developments in X-ray and TeV Astronomy. Main projects include eROSITA, ATHENA, H.E.S.S., CTA, eXTP, THESEUS, HERMES and GIFTS. We are conducting data analysis and modelling of multi-wavelength observations of galactic compact sources, supernova remnants, and for indirect dark matter search.

The University of Tübingen is committed to equal opportunity and diversity. Applications from equally qualified candidates with disabilities will be given preference. We invite qualified women to apply. The position is generally suitable for part-time work.

Applications, including a full *curriculum vitae*, motivation letter, list of publications and the names and email addresses of at least two references, should be sent, as soon as possible and not later than the 15<sup>th</sup> of November 2024, via e-mail (single pdf preferred), to the head of the section high energy astrophysics: Prof. Andrea Santangelo, [andrea.santangelo@uni-tuebingen.de](mailto:andrea.santangelo@uni-tuebingen.de)

The responsibility for the employment lies with the administration of the University of Tübingen.

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