

## Position Opening

The Experimental Particle Physics Group (Chair for Physics and its Didactics) at Julius-Maximilians-University Würzburg (JMU), Germany, is inviting applications for a

### Postdoc Position (TV-L E13, 100%) ATLAS muon detector

The University of Würzburg is a member of the international collaboration of the ATLAS experiment at the Large Hadron Collider (LHC) at CERN, Geneva. Our experimental particle physics group at the University of Würzburg has a long-term experience in physics analyses of the ATLAS data and in developments, construction works and commissioning of the detector and electronics hardware of the ATLAS Muon Spectrometer.

Currently, the group is actively involved in the Phase-2 High Luminosity Upgrade project of the MDT (Monitored Drift Tubes) detector of the Muon Spectrometer. As a part of the Phase-2 upgrade project we developed a hardware tester tool and a corresponding software application for the new read-out electronics cards (mezzanine cards) of the MDT detector. The tester tool was successfully used in performance studies of prototypes of the mezzanine cards leading to the significant improvements of their design and functionalities. The tester tool is being/will be used at the University of Würzburg and at CERN in quality control tests of the mass-production of the mezzanine cards.

We plan to extend our contribution in the MDT Phase-2 upgrade project and participate in the upcoming commissioning and detector integration activities of the small-MDT (sMDT) chambers at CERN. We also intend to participate in the performance studies of the newly developed MDT segment of the ATLAS low-level hardware trigger system (L0MDT) and contribute to the corresponding trigger software development under the ATHENA framework of the ATLAS Experiment.

The successful candidate is supposed to take a leading role in our group on the successful realisation of the aforementioned plans. Past experience of the candidate with the detector read-out and trigger electronics systems as well as software programming skills is highly appreciated. The position will be available to start as soon as possible and will be fixed term for an initial period to end on June 30rd 2027. The position is full time.

The JMU aims to reduce the underrepresentation of women and therefore explicitly encourages qualified women to apply.

Severely handicapped applicants will be given preferential consideration in the case of broadly equal suitability, ability and professional achievements.

Please send your convincing application and supporting documents - preferably by email – to

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97074 Würzburg tel.: +49-931-31-85786 ([l-didaktik@physik.uni-wuerzburg.de](mailto:l-didaktik@physik.uni-wuerzburg.de))

The closing date for applications is February 28th 2025.

Please do not send any original documents to us; only send photocopies. As we need to save costs, we will not be able to return your documents to you. They will be shredded shortly after a hiring decision has been made. If you enclose a postage-paid return envelope, we will return your application documents to you three months after a hiring decision has been made.



For further information please contact:

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