



The Leibniz Institute for Astrophysics Potsdam (AIP) invites applications for a

## PhD student position in dwarf galaxies / near-field cosmology (m/f/d)

The position is within the new Leibniz Junior Research Group led by Dr Marcel S. Pawlowski, and part of the project “Cosmic Choreographies – Studying Systems of Satellite Galaxies and Their Phase-Space Correlations”. The successful applicant will work with Dr. Pawlowski, and also collaborate with other researchers at the AIP.

The topic of the project are theoretical, numerical, and observational studies of satellite galaxy systems, and their use as probes to test our cosmological paradigm. One focus will be on investigating a wide range of cosmological simulations, to identify possible influences of the assumed type of dark matter, large-scale structure, host galaxy merger history, and numerical effects on satellite galaxy systems.

Applicants should hold a Master’s degree or equivalent in astrophysics or a related discipline at the time of taking up the position. Applicants are expected to have some experience in scientific coding (preferentially with Python). The following skills would be advantageous: experience in working with numerical simulations and/or analyzing galaxy catalogs of cosmological simulations, knowledge of extragalactic astrophysics (in particular satellite and dwarf galaxies), advanced English skills.

The position includes travel (including a research stay at one of the group’s international collaborators), computing support, and access to training opportunities. The start date is July 1, 2021, or as soon as possible thereafter. The salary is based on the German public service scale (65% TV-L E13). Employer contributions to medical and dental insurance, parental leave, and retirement benefits are included. The AIP is an equal opportunity employer who values diversity and particularly encourages women and other underrepresented groups to apply. Inquiries about the position should be sent to Dr Marcel S. Pawlowski ([mpawlowski@aip.de](mailto:mpawlowski@aip.de)).

To apply, please send a single PDF file containing a cover letter, a curriculum vitae, your Master degree certificate (or equivalent), a link to your Master thesis, and a statement of research experience (max. 2 pages) to: [bewerbung\\_2020-21@aip.de](mailto:bewerbung_2020-21@aip.de) by the **application deadline, December 31, 2020**. Applicants should also arrange for two letters of recommendation to be sent to this address by the same date.

*Application documents will be kept for at least three months after completion of the recruitment process, even if your application is unsuccessful. As a rule, your documents will be made available to a selection committee and the committees and officials to be involved.*