



We are offering a

PhD Student Position in Mathematics for 3 years

(salary group E13 TV-L, 50%)

at the interface between Geometric Analysis, Differential Geometry, and Mathematical Relativity, starting from **October 01, 2022** or at a slightly earlier or later date to be negotiated by the successful candidate. The appointment is limited to 3 years and will be held at the University of Tübingen in the Differential Geometry and Mathematical Relativity group led by Carla Cederbaum.

The successful applicant is expected to research topics related to the asymptotic STCMC-foliation in relativistic initial data sets, as introduced in *Carla Cederbaum, Anna Sakovich: On center of mass and foliations by constant spacetime mean curvature surfaces for isolated systems in General Relativity*. Calculus of Variations and Partial Differential Equations 60, no. 214 (2021). Furthermore, the successful applicant is expected to participate in continuous scientific exchange with the other members of the research group as well as in relevant scientific seminars and events. The position has a teaching load of 2 hours per week per semester. Teaching in English is possible.

Applicants are required to have an MSc or equivalent degree in Mathematics or Mathematical Physics. Candidates should have knowledge in the field of Geometric Analysis. Prior experience in General Relativity is helpful but not necessary, while willingness to learn concepts and techniques from Mathematical Relativity is essential.

The University of Tübingen is particularly interested in increasing the number of women in research and teaching and therefore encourages women candidates to apply. In the case of equally qualified candidates, applicants with disabilities will be given preference. The employment is carried out by the Central University Administration.

Please send your application with the usual documents (curriculum vitae, transcript of records, letter of motivation, names of one or two potential referees) by email to Carla Cederbaum via the above email address. We will start reviewing applications on **March 10, 2022** until the position will be filled.

We look forward to receiving your application. Please feel free to contact Carla Cederbaum via the above email address in case you have any questions about the position, the selection process, and / or the goals of the envisioned research project.