



The **Vienna School of Mathematics (VSM)** is a joint graduate school of the mathematics faculties of the **University of Vienna** and the **TU Wien**. The VSM is devoted to top-level PhD education in all branches of mathematics. It fosters intra- and interdisciplinary scientific cooperation and networking among students and advisors and aims at increasing the international visibility of the Vienna area as a center for mathematics.

The VSM currently announces a three year PhD position in the area of

Inner Model Theory, Large Cardinals, and Determinacy (Technische Universität Wien, Supervisor: Sandra Müller)

The potential PhD topics involve the analysis of the determinacy of long games, inner models with supercompactness measures, and inner models with a Woodin limit of Woodin cardinals. The first year of the position will be funded by the Institute of Discrete Mathematics and Geometry of the Technische Universität Wien. An extension for a second and third year is planned through funding by the Austrian Science Fund FWF through the START project "Determinacy and Woodin limits of Woodin cardinals" (Y1498). The basic requirement for the position is a good working knowledge in set theory as well as basic knowledge in inner model theory.

The advertised position is associated with the Institute of Discrete Mathematics and Geometry of the Technische Universität Wien in the Research Area Set Theory. The successful candidate will become a member of the Vienna School of Mathematics and is expected to actively contribute to its activities. The extent of employment is 30 hours per week. The position will start on December 1st, 2023.

Application Requirements and Procedure

The candidates must have a master degree (or equivalent) in Mathematics at the moment the PhD position starts. The application documents should contain a letter of motivation; the scientific CV with publications list; higher education certificates/diplomas. Applications have to be submitted through the job portal of the Technische Universität Wien: <https://jobs.tuwien.ac.at/Job/219805>. The deadline for applications is **October 26, 2023**.