

PostDoc Position in Algebra

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From October 2019 to December 2020 there is a PostDoc position (full TVL 13 position with no teaching duties) available in the DFG-Project

Unit groups of orders

within the framework of the SFB TRR 195 Symbolic Tools in Mathematics and their Application.

The aim of the project is to study infinite matrix groups, in particular arithmetic groups, using computer algebra systems.

Magma programs for computing generating matrices and their relations for certain unit groups of orders in simple rational algebras are available to compute small examples. In particular S -unit groups have applications in the design of quantum algorithms.

We aim to find new theoretic and algorithmic tools to gain insight in the structure of such infinite matrix groups.

The ideal candidate should combine experience in number theory and group theory with computer algebra skills. We are also open to applications from other areas, e.g. geometric group theory, that might open new approaches to the problem.

Applications should be send at your earliest convenience but latest by **July 31st** to

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