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## Postdoctoral position in the project

### *Efficient approximation algorithms and circuit complexity*

Appointment period: **12 months** (until June 30th, 2023)

Appointment type: **Full-time employment contract**

Starting date: **July 1, 2022** (or upon agreement)

Salary: **CZK 45 000 per month**

Deadline for applications: **December 6, 2021**

The Institute of Mathematics of the Czech Academy of Sciences (IM CAS) is seeking a researcher for the project "Efficient approximation algorithms and circuit complexity" coordinated by Pavel Hrubeš and funded by the Czech Science Foundation.

We invite applications from candidates who have completed their PhD degree in Mathematics, within the last 2 years. A successful applicant will be expected to work on topics pertaining to the complexity of arithmetic computations, this includes the hardness of computing the permanent by general arithmetic circuits, or their restricted versions, such as non-commutative computation.

We require verbal and written English communication skills and ability to work both independently and collaboratively. Publications, as well as other activities and professional achievements, will be judged by the stage of the applicant's career.

The successful applicant will be based in the Institute of Mathematics of the Czech Academy of Sciences, Prague, and perform research in the areas of the project. He/She is also expected to take part in activities of the Department of Mathematical Logic and Theoretical Computer Science such as seminars and workshops organized by the group. No teaching is involved.

For more detailed information about the project, please contact the Principal Investigator of the project Pavel Hrubeš [hrubes@math.cas.cz](mailto:hrubes@math.cas.cz)

The following documents are required:

1. **CV**
2. **list of publications**
3. **motivation letter (may contain a short research statement)**
4. **two letters of reference**

Application for the position must be submitted **exclusively using the electronic submission system** at <https://application.math.cas.cz/Positions.html>

Equal opportunities are an integral part of the IM CAS personnel policy. The IM CAS fosters the compatibility of work and family and encourages applications from qualified female researchers. Disabled applicants will be given preference in case of equal qualifications.

Only complete applications (including the letters of reference) received before December 6, 2021, will be considered. All applicants will be notified by December 20, 2021.

This is a 12-months appointment with no possibility of extension.

Tomáš Vejchodský, Director