

## 5<sup>th</sup> VSM Call for Applications (Deadlines: November 22, 2021/December 6, 2021)

### 1. Up to four PhD positions financed by the VSM (University of Vienna); **application deadline November 22**

For these positions (directions for) PhD projects have been proposed. Applications are only possible for specific projects from the list.

List of projects (in alphabetical order):

1. [Stability of Word Maps, with Applications](#) (Supervisor: Goulnara Arzhantseva)
2. [Expander Graphs, with Applications](#) (Supervisor: Goulnara Arzhantseva)
3. [Towards a Geometric Understanding of the Space of Stochastic Processes](#)  
(Supervisors: Julio Backhoff-Veraguas, Mathias Beiglböck)
4. [Topics from the Langlands Program](#) (Supervisors: Harald Grobner, Alberto Mínguez)
5. [Low-rank Tensor Decompositions in Scientific Machine Learning](#) (Supervisors: Vladimir Kazeev, Philipp Petersen)
6. [Combinatorics](#) (Supervisor: Christian Krattenthaler)
7. [An Analytic Approach to Tensor Field Tomography](#) (Supervisor: Otmar Scherzer)
8. [Rare Events – Probabilistic Laws from Deterministic Dynamics](#) (Supervisor: Roland Zweimüller)

### 2. NoMASP: Nonsmooth Nonconvex Optimization Methods for Acoustic Signal Processing (Austrian Academy of Sciences, Supervisor: P. Balazs; University of Vienna, Supervisor: R. Bot); **application deadline December 6**

### 3. Regularisation of Differential Equations by Random Processes (TU Wien, Supervisor: M. Gerencsér); **application deadline December 6**