



## Mathematics and CS Seminar

# GeomTop Seminar: Talk by Mikhail Shkolnikov "Limit of the sandpile group"

**Mikhail Shkolnikov**

**Host: Herbert Edelsbrunner**

**Title:** Limit of the sandpile group  
The sandpile group is a finite abelian group defined for any graph. It is of special interest for the piece of the lattice bounded by some convex domain. There are strong indications that there is a limit for these groups when one fixes the domain and sends the mesh of the lattice to zero. Until recently, nobody was able to make rigorous sense of this vague statement. Here is what we are suggesting: 1) for a given mesh, define a visual-type heuristic metric on the sandpile; 2) look at the persistence diagrams and whether they stabilise when mesh vanishes.

**Wednesday, May 23, 2018 01:00pm - 02:15pm**

IST Austria Campus Mondri Seminar Room 3, Central Building



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: [http://ist.ac.at/fileadmin/user\\_upload/pdfs/IST\\_shuttle\\_bus.pdf](http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf) The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.