IST AUSTRIA
Institute of Science and Technology

Mathematics and CS Seminar

Sandpile group of graphs and digraphs

Lilla Tóthmérész (Eötvös Loránd University, Budapest)

Host: Tamas Hausel

I will talk about the sandpile group of finite graphs and directed graphs. I will state the Riemann-Roch theorem for graphs (due to Baker-Norine), say what can be known about the case of directed graphs, and how these things are connected to feedback arc sets. (This part is joint work with Blint Hujter.)

I will also talk about a very nice connection between sandpile groups of ribbon graphs and planarity: By Chan-Church-Grochow and Baker-Wang, certain actions of the sandpile group of a ribbon graph on the spanning trees are canonical if and only if the ribbon structure is planar. With Tams Klmn and Seunghun Lee we gave a canonical definition for this action in the planar case.

Thursday, May 9, 2019 01:30pm - 03:30pm

IST Austria Campus Big Seminar room Ground floor / Office Bldg West (I21.EG.101)

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: https://ist.ac.at/en/campus/how-to-get-here/ The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.