Seminar/Talk

Sandpile group of graphs and digraphs

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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

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