



## Mathematics and CS Seminar

# Geometric recursion

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Host: Tamas Hausel

I will describe a new formalism developed together with Andersen and Orantin, called geometric recursion. Out of a small amount of initial data, and a functor  $E$  from a category of surfaces to a category of topological vector spaces, it constructs functorial assignments  $S \rightarrow \Omega_S$  in  $E(S)$  by induction on the Euler characteristic of  $S$ . Examples of  $E$  include functions over the Teichmüller space, the topological recursion of Eynard and Orantin appears in this case as a projection of the geometric recursion, and a prototype of the geometric recursion formula are the Mirzakhani-McShane identities.

**Thursday, December 7, 2017 01:00pm - 03:00pm**

Mondi Seminar Room 2, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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