

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Thursday, 19 March, 12:15-13:00
Seminarraum 05.002, Spiegelgasse 5

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Mapping class group and δ -hyperbolicity of the curve graph

ABSTRACT

A way of studying a group is to making this group act on a space. If the space is hyperbolic in some sense, namely δ -hyperbolic, and if the action is "well chosen" then we can deduce some properties of the group. We can do it for the mapping class group, ie the group of homeomorphisms of a given surface up to isotopy. In this talk, after that the definitions and basic examples was introduced, we will focus on finding a δ -hyperbolic space on which the mapping class group acts on it, ie the curve graph. We will then give an idea of a simple proof of the δ -hyperbolicity of the curve graph due to Sisto.