

1156-20-126

Rose Morris-Wright* (rmorriswright@brandeis.edu), MA. *An analog of the curve complex in FC type Artin groups.*

The curve complex is an important geometric construction for studying the mapping class group of a topological surface. This talk will construct an analogous simplicial complex for Artin groups of FC type. Artin groups are a generalization of braid groups that provide a rich field of examples and counter-examples for many algebraic, geometric, and topological properties. The complex of parabolic subgroups generalizes the curve complex for braid groups and the extension graph for right-angled Artin groups. I will define the complex of parabolic subgroups, as well as discuss properties that the curve complex and the complex of parabolic subgroups share. (Received January 18, 2020)