

1154-20-1111 **Rose Morris-Wright*** (rmorriswright@brandeis.edu). *An analogy of the curve complex for Artin groups of FC type.*

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, when braid groups are considered as the mapping class groups of the punctured disc. I will discuss properties that the curve complex and the complex of parabolic subgroups share as well as some open questions about Artin groups that the complex of parabolic subgroups might address. (Received September 13, 2019)