

1164-20-131 **Alan McLeay***, mcleay.math@gmail.com, Luxembourg. *Big mapping class groups and the co-Hopfian property.*

Combined results of Ivanov-McCarthy and Bell-Margalit tell us that every injective map from a mapping class group to itself is an isomorphism. These results cover all but a handful of finite-type surfaces.

In this talk we will explore how infinite-type surfaces can "fit inside themselves" in various ways, and how some of these ways give rise to injective, non-surjective, mapping class group homomorphisms. In particular, we show that two big mapping class groups, and uncountably many pure big mapping class groups, are not co-Hopfian. This is joint work with Javier Aramayona and Chris Leininger. (Received January 16, 2021)