

1173-57-55

Scott A Taylor*, sataylor@colby.edu, and **Maggy Tomova**, maggy-tomova@uiowa.edu.

Equivariant Heegaard genus and spatial graphs.

Given a 3-manifold with a smooth finite group action, the equivariant Heegaard genus of a 3-manifold is the minimal genus of a Heegaard splitting which is invariant under the group action. Although Heegaard genus is additive under connected sum, the same is not true for equivariant Heegaard genus. I'll exhibit some illustrative examples and explore lower bounds on the degeneration of equivariant Heegaard genus arising from spatial graphs. Aspects of this work are joint with Maggy Tomova. (Received September 13, 2021)