

## **Generalized complexes and the tropical moduli space of curves**

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Generalized complexes are like simplicial complexes, but with more permissive gluing maps, including self-gluing of simplices via permuting vertices. I will give a tutorial on these complexes and their cellular homology. The main example will be the tropical moduli space of curves, which I will introduce. By studying the homology of this combinatorial space, we have been able to produce new cohomology classes in the classical moduli space  $M_{\{g,n\}}$  of curves. All of these results are joint work with Soren Galatius and Sam Payne.