

1128-57-197

Safia Chettih*, safia@reed.edu. *Configurations with Sinks and on Graphs*. Preliminary report.

Given a graph Γ , we can construct discretized models for its n -point configuration space that are cubical complexes. The model constructed by A. Abrams in his 2000 PhD thesis is the most well-known, but in 2001 J. Świątkowski constructed a lesser-known model whose dimension stabilizes as the number of points increases. In recent work with D. Lütgehetmann, we have considered a Świątkowski-style discretized model for configurations with sinks, where multiple points are allowed to occupy certain vertices of the graph. In my talk, I will discuss these various constructions and their implications for the topology of ordered configuration spaces of graphs. (Received February 26, 2017)