

1134-55-57

Safia Chettih* (safia@reed.edu) and **Daniel Lütgehetmann**
(daniel.luetgehetmann@fu-berlin.de). *Configurations with sinks and on graphs.*

Given a graph Γ , there exist 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 Światkowski constructed a lesser-known model whose dimension stabilizes as the number of points increases. We have constructed a Światkowski-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 August 05, 2017)