

1147-55-885

**Safia Chettih\*** ([safia@reed.edu](mailto:safia@reed.edu)). *Configuration Spaces on Graphs and Their Models.*

Given a graph or a finite cell complex, there are a number of models for its ordered and unordered configuration spaces. Different models are useful for investigating the geometric or combinatorial properties of these spaces, and have revealed a wealth of interesting and varied stability phenomena. Non- $k$ -equal configurations, where no more than  $k$  points are allowed to collide, represent a new frontier for these investigations. I will discuss the construction of various models and associated results in stability with an eye towards extensions to non- $k$ -equal configurations. (Received January 29, 2019)