

1147-05-834 **Corey Vorland*** (corey.vorland@augie.edu), 2001 South Summit Avenue, Sioux Falls, SD
57197. *Infinite toggle dynamics.*

The actions of rowmotion and promotion on order ideals of a poset have been investigated for finite posets. However, these toggle actions have been unexplored for infinite posets. In this talk, we provide a framework to perform rowmotion and promotion on order ideals of an infinite poset and present preliminary results. On two infinite posets, we also show the existence of homomesy, which occurs when a statistic on a set has the same average value over any orbit as the global average of that statistic. (Received January 29, 2019)