

1135-VU-2097 **Malcolm Henry Gabbard*** (malcolm.gabbard@coloradocollege.edu) and **Sam Kottler**
(s.kottler@coloradocollege.edu). *A Study of Metrics on Visual Boundaries.*

Certain metrics on the boundary of CAT(0) spaces have been well studied. However, these metrics are not easily extendable to the interior of the CAT(0) space. We propose a new family of metrics on the boundary of CAT(0) spaces which can be extended to metrics on the interior of the space. We explore whether changing the parameters for these metrics is a quasi-symmetric transformation. The advantage of this family of metrics is that it depends on the entire geodesic ray so it captures more of the geometry of the space. This will hopefully help with problems such as generalizing which boundaries of CAT(0) spaces have a finite linearly controlled dimension. (Received September 25, 2017)