



A Glimpse Into Non-Euclidean Worlds

by AJ Greene, UofSC Graduate Student



Many of our mathematical pursuits begin with observations of the world around us. Our initial explorations of geometry are that of flat planes and spaces, because that is how world appears to us "locally." Of course, we know now that the world is spherical; if one were to walk in a particular direction forever, eventually they would return to their starting. This is one quality of spherical geometry, an example of a non-Euclidean geometry. In this talk, we will explore aspects of two non-Euclidean geometries and picture what it would be like to inhabit these worlds through models.

Bio: AJ Greene is a first year PhD here at USC. He completed his undergraduate education at Boston University in 2018 and his Master's at Tufts in 2022. As much as he loves math, he loves sharing it with others ever more; teaching and collaborative exploration are vital for the subject.

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