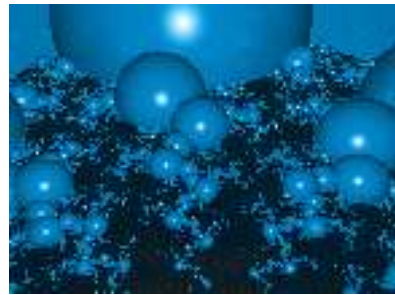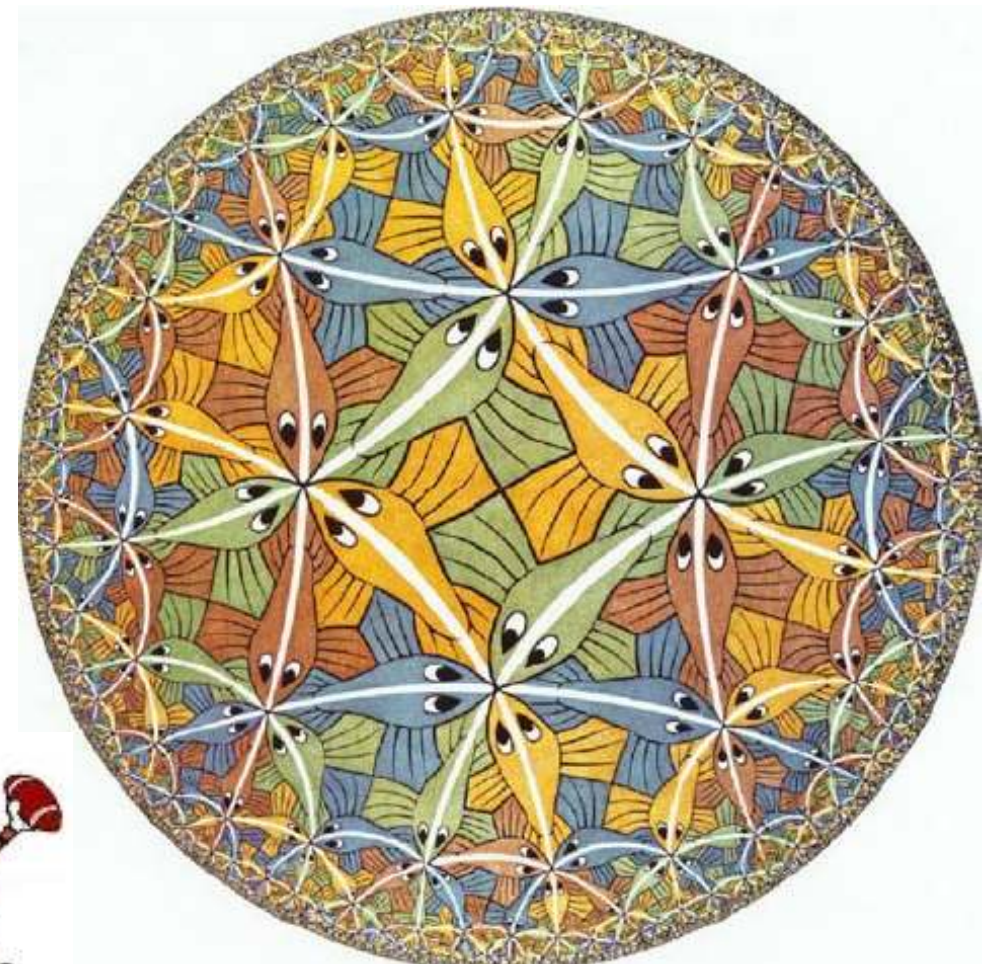# Michigan Math Club

Thursday at 4pm in EH1360
Pizza + pop outside afterwards!!

Sports in hyperbolic space

Dick Canary

11 April 2024

There are three "nice" two-dimensional geometries: spherical, Euclidean and hyperbolic. In order to understand hyperbolic geometry viscerally, we will discuss how various sports play out in hyperbolic space. We will also discuss the fact that every surface admits a nice structure which looks locally like spherical, Euclidean or hyperbolic space. For "most" surfaces this structure is hyperbolic. When I gave this talk in San Jose there was an earthquake during this talk, so it may rock your world.