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Sohrab Mirshams Shahshahani* (sohrab@math.umass.edu), Amherst, MA 01060. *Geometric wave equations on hyperbolic space.*

In this talk I will discuss recent progress on geometric wave equations on the hyperbolic space. To motivate the problem I will begin by describing previous results on the equivariant wave maps on H^2 , where, in contrast to the Euclidean problem, there is a 1-parameter family of finite energy harmonic maps, and then explain the various difficulties that arise from considering non-equivariant maps. In the remainder of the talk I will discuss the resolution to some of the new difficulties, including the choice of gauge. (Received July 25, 2017)