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Andrew Lawrie and **Sung-Jin Oh*** (sjoh@math.berkeley.edu), UC Berkeley, Dept of Math, 970 Evans Hall, Berkeley, CA 94720, and **Sohrab Shahshahani**. *Wave maps from the hyperbolic plane.*

In this talk, we consider equivariant wave maps from the hyperbolic plane into two model rotationally symmetric targets, namely the two sphere (\mathbb{S}^2) and the hyperbolic plane itself (\mathbb{H}^2). Due to the non-Euclidean geometry of the domain, this problem exhibits markedly different phenomena compared to its Euclidean counterpart. For instance, there exist numerous stationary solutions to not only \mathbb{S}^2 but also \mathbb{H}^2 , which has a negative constant curvature. Moreover, when the target is \mathbb{S}^2 , the spectrum of the linearized operator about certain stationary solutions possesses a *gap eigenvalue*, i.e., a simple eigenvalue in the gap $(0, 1/4)$ between 0 and the essential spectrum. (Received September 02, 2014)