

SPEAKER:

Sung-Jin Oh, University of California, Berkeley

TITLE:

Wave maps from the hyperbolic space

ABSTRACT:

The subject of this talk is wave maps from the hyperbolic space. Due to the non-Euclidean geometry of the domain, this problem exhibits markedly different phenomena compared to its Euclidean counterpart, such as existence of stable static solutions (harmonic maps) with finite energy and occurrence of a gap eigenvalue for the linearized problem around certain harmonic maps. I will give a survey of recent results obtained in collaboration with A. Lawrie and S. Shahshahani.