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**Speaker:** Eric Riedl  
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Wednesday, September 5, 2018  
3:00 PM  
258 Hurley Hall

**Title:** A Grassmannian technique and the Kobayashi Conjecture

**Abstract:**

An entire curve on a complex variety is a holomorphic map from the complex numbers to the variety. We discuss two well-known conjectures on entire curves on very general high-degree hypersurfaces  $X$  in  $P^n$ : the Green-Griffiths-Lang Conjecture, which says that the entire curves lie in a proper subvariety of  $X$ , and the Kobayashi Conjecture, which says that  $X$  contains no entire curves. We prove that (a slightly strengthened version of) the Green-Griffiths-Lang Conjecture in dimension  $2n$  implies the Kobayashi Conjecture in dimension  $n$ . Our technique is substantially simpler than previous approaches to this question, and has already led to improved bounds for the Kobayashi Conjecture. This is joint work with David Yang.