



Speaker: Holly Krieger
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Thursday, April 21, 2016

2:00 PM

125 Hayes-Healy Hall

Title: A case of the dynamical André-Oort conjecture

Abstract:

Will discuss unlikely intersections in complex dynamics, focusing on the dynamical André-Oort question: which algebraic families of degree d maps of the Riemann sphere contain a Zariski dense subset of post-critically finite maps? First studied by Baker-DeMarco, a product version of this question was answered by Ghioca, Nguyen, Ye, and myself. I will discuss our work, which relies on arithmetic equidistribution of points of small height as well as the combinatorics of external rays of the Mandelbrot set.