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Critical orbits of certain endomorphisms of projective space

Post-critically finite (PCF) rational functions of one variable, those whose critical points all have finite forward orbit, are a natural class to consider in holomorphic dynamics. It follows from work of Thurston and McMullen that these functions do not occur in algebraic families, except for the Lattes examples. In higher dimension, less is known. This talk will use some tools from arithmetic geometry to say something about this problem for endomorphisms of \mathbb{P}^N ramified along $N + 1$ hyperplanes (in some sense the simplest ramification one could have).