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Eric Bedford and **Kyounghee Kim*** (kyoukim@indiana.edu), Department of Mathematics,
Indiana University, Bloomington, IN 47405. *On the Cohomological Approach to Birational
Dynamics.*

Let f be a birational map of \mathbf{P}^k . Using a blowing-up procedure on \mathbf{P}^k , we construct a new space X so that the induced map f_X behaves well on the cohomology classes $H^{1,1}(X)$. In many cases, this procedure allows us to obtain information about f . We illustrate this using a family of birational mappings obtained from linear fractional recurrence relations. (Received February 03, 2006)