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Pseudo-automorphisms with an invariant elliptic curve.

Consider a birational map f given by the Cremona involution followed by an automorphism on P^k . Suppose f preserves an elliptic curve C , that is the closure of $f(C - \text{Ind}(f))$ is same as C . The group law on the elliptic curve gives a way to construct pseudo automorphisms on a rational k fold with a given orbit data. We will discuss about the construction and the properties of those maps. (Received September 10, 2013)