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Eric Bedford* (bedford@indiana.edu), Department of Mathematics, Stony Brook University, Stony Brook, NY 11794-3651. *Pseudo-automorphisms of point blowups of projective space*. Preliminary report.

Let $J(x_0, \dots, x_k) = (1/x_0, \dots, 1/x_k)$ denote the standard Cremona involution on complex projective space P^k , and let L denote a (linear) automorphism of P^k . We consider birational maps of the form $f = L \circ J$. We consider spaces X obtained by the (iterated) blow up of P^k at a (finite) number of points. We discuss the existence of linear maps L such that there is a space X for which the induced map f_X of X is a pseudo-automorphism. We also discuss the properties of such maps. (Received September 13, 2013)