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Axiom A Polynomial Skew Products of C². Preliminary report.

A polynomial skew product of \mathbb{C}^2 is a map of the form f(z, w) = (p(z), q(z, w)), where p and q are polynomial maps of \mathbb{C} of the same degree $d \ge 2$. If Ω denotes the nonwandering set of f, then f is Axiom A if periodic points are dense in Ω , and Ω is a hyperbolic set for f. In this talk, we will provide some restrictions on the topology of Ω , and on the dynamics for certain Axiom A polynomial skew products, and describe some examples of Axiom A polynomial skew products with interesting behavior. (Received January 01, 2007)