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Laminations corresponding to periodic polygons.

Understanding polynomial dynamics on the complex plane is a goal of many mathematicians. Thanks to William Thurston, we have a combinatorial model which aids in this pursuit. This model is called a lamination which is defined as a collection of mutually interior disjoint chords in the unit disk. We define a type of lamination called a simplest lamination corresponding to a collection of periodic polygons. In particular, we study the forward orbit of an identity return polygon, a periodic polygon that first returns to itself by the identity. (Received February 03, 2015)