Laminations in the unit disk

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Abstract: A lamination is closed set of chords (called leaves) in the unit disk so that no two intersect inside the open unit disk. Invariant laminations (under the covering map $\sigma_d(z) = z^d$ in the complex plane) were introduced by Thurston as a means to study individual polynomials and the space of all polynomials with connected Julia sets.

In this talk we will explore the connection between laminations and (invariant) equivalence relations on the unit circle. Although all such equivalence relations determine a lamination the reverse conclusion is more complicated. We will also discuss the connection between laminations and the dynamics of polynomials acting on the complex plane.