1131-37-358 **Timothy C Wilson*** (timothywilson@my.unt.edu). Continuity of Hausdorff Dimension in Hyperbolic Polynomials.

We consider a family of hyperbolic polynomials $P_{\lambda} : \mathbb{C} \to \mathbb{C}$ defined by $P_{\lambda}(z) = \lambda z^{d+1} + P(z)$ where P(z) is hyperbolic polynomial of degree d. Let $J(P_{\lambda})$ be the Julia set of P_{λ} . Our main result is that the function $\lambda \mapsto h_{\lambda} := HD(J(P_{\lambda})), \lambda \in$ $[0, \epsilon)$ is continuous at the point 0. The main tools we use are the associated conformal measures. (Received July 18, 2017)