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Laura DeMarco* (demarco@math.uic.edu). *Polynomial dynamics, critical points and moduli.*

A classification of the dynamics of polynomials in one complex variable has remained elusive, even when considering only the simpler “structurally stable” polynomials. I will discuss progress towards this classification and a corresponding decomposition of the moduli space of polynomials. This is joint work with Kevin Pilgrim. (Received September 14, 2010)