On Combinatorial Models for Some Families of Cubic Polynomials Alexander Blokh University of Alabama-Birmingham

We discuss models of the family of cubic polynomials which we call the (Main) Cubioid. It is analogous to the Main Cardioid of the Mandelbrot set. E.g., the model of the slice of the Cubioid which corresponds to the rational rotation number p/q at the fixed point is the modified Julia set of the quadratic polynomial with fixed parabolic point of rotation number p/q.