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Araceli Bonifant* (bonifant@math.uri.edu), Department of Mathematics, URI, Lippitt Hall, Room 200, 5 Lippitt Road, KIngston, RI 02881, Jan Kiwi (jkiwi@puc.cl), Facultad de Matematicas, PUC, Pontificia Universidad Catolica, Casilla 306, Correo 22, Sanntiago de Chile, Chile, and John Milnor (jack@math.sunysb.edu), Institute for Mathematical Sciences, Stony Brook University, Stony Brook, NY. The period p curve, S_p for Cubic Polynomials.

The parameter space S_p for monic centered cubic polynomial maps with a marked critical point of period p is a smooth algebraic curve whose genus increases rapidly with p. In this talk I will discuss the topology of S_p . (Received February 10, 2011)