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Athens, GA 30602. *Arithmetic Coordinates on Dynamical Moduli Space*. Preliminary report.

For the moduli space of quadratic rational functions, work of Doyle, Jacobs, and Rumely shows that the usual coordinates  $\sigma_1, \sigma_2$  distinguish the different reduction types of non-Archimedean quadratic rational functions. This talk will present similar results for cubic polynomials, and work in progress for cubic rational functions. (Received September 11, 2015)