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Karl Liechty* (kliechty@depaul.edu), Department of Mathematical Sciences, DePaul University, 2320 N Kenmore Ave, Chicago, IL 60614-3210, and **Jeff Geronimo**. *The Fourier continuation method, and discrete orthogonal polynomials on an arc*. Preliminary report.

The Fourier continuation method is a numerical method used to estimate a function from a discrete sample using Fourier techniques. It turns out that the error estimates in this method are closely connected with polynomials orthogonal with respect to a discrete weight on an arc of the unit circle. I will discuss the asymptotic properties of these polynomials, and their implications for the Fourier continuation method. (Received August 11, 2015)