1120-30-312 **Joan Lind*** (jlind@utk.edu) and **Jessica Robins**. *Loewner deformations driven by the Weierstrass function.*

The Loewner differential equation provides a way of encoding growing families of sets into continuous real-valued functions. Most famously, Schramm-Loewner Evolution (SLE) are the growing random families of sets that are encoded via the Loewner equation by a multiple of Brownian motion. We consider the families of sets encoded by a multiple of the Weierstrass function, which is a deterministic analog of Brownian motion, and prove that there is a phase transition in this setting, just as there is in the SLE setting. (Received February 23, 2016)