

A rate of convergence for loop-erased random walk to SLE(2)

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Among the open problems for SLE suggested by Oded Schramm in his 2006 ICM talk is that of obtaining “reasonable estimates for the speed of convergence of the discrete processes which are known to converge to SLE.” In this talk we derive a rate for the convergence of the Loewner driving function for loop-erased random walk to Brownian motion with speed 2 on the unit circle, the Loewner driving function for radial SLE(2). This talk is based on joint work with Christian Benes (CUNY) and Fredrik Johansson (KTH).