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On the rate of convergence of discrete interfaces to SLE.

We will present recent developments in generating a general framework for establishing a rate of convergence of the critical interfaces of various critical lattice models to SLE. Following the work of S. Smirnov and A. Kemppainen and the work of F. Viklund, assuming a polynomial rate of convergence of the martingale observable functions we can obtain a polynomial rate of convergence provided the random curve satisfies some mild conditions. We will discuss the application of this framework to percolation, harmonic explorer, and Ising model.