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We demonstrate the relevance of modular forms to crossing probabilities in critical 2-D percolation and Stochastic Löwner Evolution for figures with edges, despite the lack of the appropriate symmetry. A new type of modular object, the “higher-order modular form” emerges from our analysis.

Crossing Probabilities and Modular Forms, P. Kleban and Don Zagier, J. Stat. Phys. **113**, 431-454 (2003) [arXiv:math-ph/0209023]. (Received February 21, 2007)