## INTERLACING PARTICLE SYSTEMS AND THE GAUSSIAN FREE FIELD J. Kuan

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We analyze the fluctuations in the height function of an interlacing system of particles in the two-dimensional lattice. The main result is that these fluctuations converge to the Gaussian Free Field. This model has connections to the Anisotropic Kardar-Parisi-Zhang universality class and to the representation theory of Lie groups.