

GUE Fluctuations Near the Origin in One-Sided Ballistic Deposition

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We will introduce a variation of the ballistic deposition model in which vertically falling blocks can only stick to the top or the upper right corner of growing columns. For this model, we will establish that the fluctuations of the height function at points near the origin are given by the GUE ensemble and its correspondent Tracy-Widom limiting distribution.

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