INTERNAL DLA ON CYLINDER GRAPHS

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Internal DLA is a random aggregation process describing the growth of clusters of particles on discrete structures according to the harmonic measure seen from the inside. IDLA clusters have been known for a while to have deterministic limiting shapes on several graphs, with small fluctuations around this shape. In this talk I will focus on IDLA on cylinder graphs of the form GxZ, for which I will analyse maximal fluctuations, average fluctuations and mixing. Based on joint work with Ariel Yadin (Ben-Gurion University).