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Fractal percolation, points, and lines

I will discuss the following phase transitions for the dyadic fractal percolation in the plane: If the retention probability p is at most $2^{(-k-2)/k}$ then each line contains at most $k - 1$ points of the fractal percolation. If $p > 2^{(-k-2)/k}$, then some line contains k points of fractal percolation.