

Long range percolation and Möbius invariance

11.9.07

Recall that the critical exponent in long range percolation is 2, $p_{\{x,y\}} = c/(x-y)^2$,
(see e.g. <http://front.math.ucdavis.edu/0012.5070>).

Also note that the only Möbius invariant measures for pairs on the line are $c/(x-y)^2 dx dy$.

Can you relate between the 2's?