THE GIANT COMPONENT AFTER PERCOLATION OF PRODUCT GRAPHS

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ABSTRACT. This talk will focus on explaining the existence of a sharp threshold for the appearance of a giant component after percolation of Cartesian products of graphs under assumptions on their maximum degrees and their isoperimetric constants. The result generalises a work of Ajtai, Komlós and Szemerédi from 1982 concerning percolation of the hypercube in high dimension.