

# A Percolation Formula

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## Abstract

Let  $A$  be an arc on the boundary of the unit disk  $U$ . We prove an asymptotic formula for the probability that there is a percolation cluster  $K$  for critical site percolation on the triangular grid in  $U$  which intersects  $A$  and such that  $0$  is surrounded by the union of  $K$  and  $A$ .

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