

# Undirected Connectivity in $O(\log^{1.5} n)$ Space

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## **Abstract**

We present a deterministic algorithm for the connectivity problem on undirected graphs that runs in  $O(\log^{1.5} n)$  space. Thus, the recursive doubling technique of Savich which requires  $\Theta(\log^2 n)$  space is not optimal for this problem.