

$\text{QNC}_1 \subset \text{noisy-BQP}$

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1 The Noise Model

2 Fault Tolerance Protocol at Linear Depth.

Claim 2.1. *There is $p_{th} \in (0, 1)$ such that if $p < p_0$ then any quantum circuit C with depth D and width W can be computed by p -noisy, resets allowed, circuit C' , with a depth at most $\max D, \log(WD)$.*