

Block connection prob. p_{ij}

_		_	_	_	_	_
0	0.05	0	0	0	0	0
0	0.1	0.3	0	0.25	0	0
0	0	0	0.1	0	0	0
0	0	0	0	0	0	0
0	0	0	0.5	0	0.2	0.4
0	0	0	0.15	0	0	0
0	0	0	0	0	0	0

$$\mathsf{Cost} \ c_{ij} := \frac{1}{p_{ij} |\widetilde{V}_i| |\widetilde{V}_j|}$$

0	0.8	0	0	0	0	0
0	0	1.33	0	0.53	0	0
0	0	0	2	0	0	0
0	0	0	0	0	0	0
0	0	0	0.13	0	0.42	0.56
0	0	0	0.33	0	0	0
0	0	0	0	0	0	0

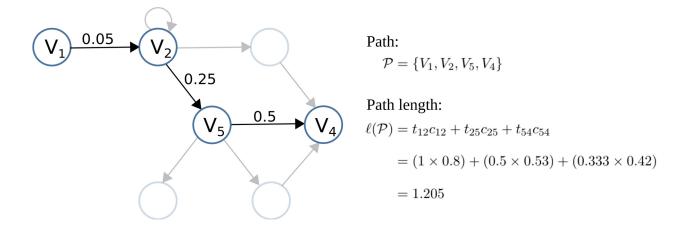


Figure S1: An illustrative example for calculating the path length of a random walk on the circuit.