Moran Process with neutral

 $N(0) \leq S(N)$

$$P_{i,i-1} = \frac{i}{N} \frac{N-i}{N} - \frac{i(N-i)}{N^2}$$

$$P_{i,i+1} = \frac{i}{N} \frac{N-i}{N} = \frac{i(N-i)}{N^2}$$

$$P_{i,i} = 1 - P_{i,i-1} - P_{i,i+1}$$

$$P_{i,0} = 1 \qquad P_{i,0} = 0 \quad \forall i > 0$$

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