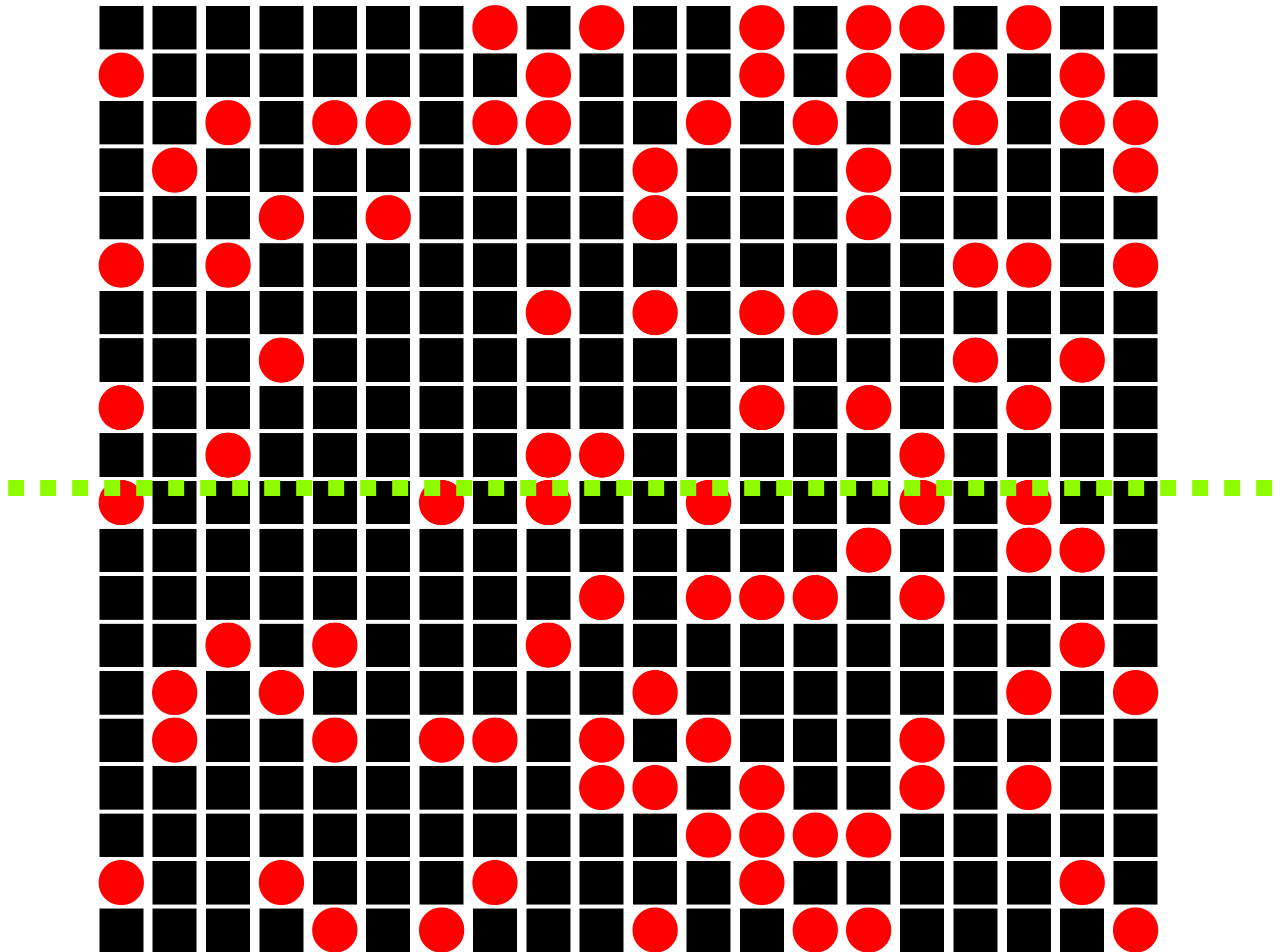


When the partition is removed the system thermalizes. This is irreversible

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When the partition is removed the system hops exploring all configurations.

The probability is essentially zero that it will return to the partition  $(E_1, E_2) = (80, 20)\Delta$

**The process is irreversible**

Two particle phase space: the dot represents a micro state

To count the phase space we divide it in bins of size  $h = \Delta x \Delta p$

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