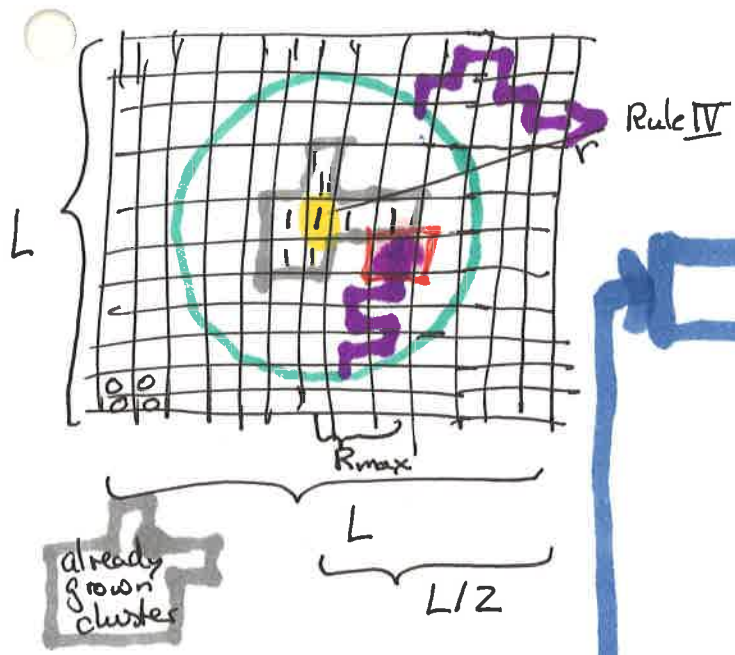# DLA Rules



**Rule I:** Initialize all lattice sites = 0 but middle site = 1

**Loop over Particles**

**Rule II:** Start random walk on circle of radius

$R_{max} + 2$ ← largest distance of cluster part. from middle

and angle $\phi \in [0, 2\pi)$ random uniformly distr.

**Rule III:** Random Walk

$\leftarrow \uparrow \rightarrow \downarrow$ equally likely

**Rule IV:** Stop random walk if $r > 2 R_{max}$

**Rule V:** Stop random walk & stick particle to cluster if random walker next to cluster particle (up, down, right, left neighbor)

**Rule VI** Stop loop over particles if enough particles OR if $2 R_{max} \geq \frac{L}{2} - 2$