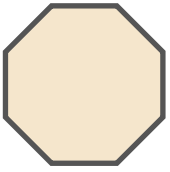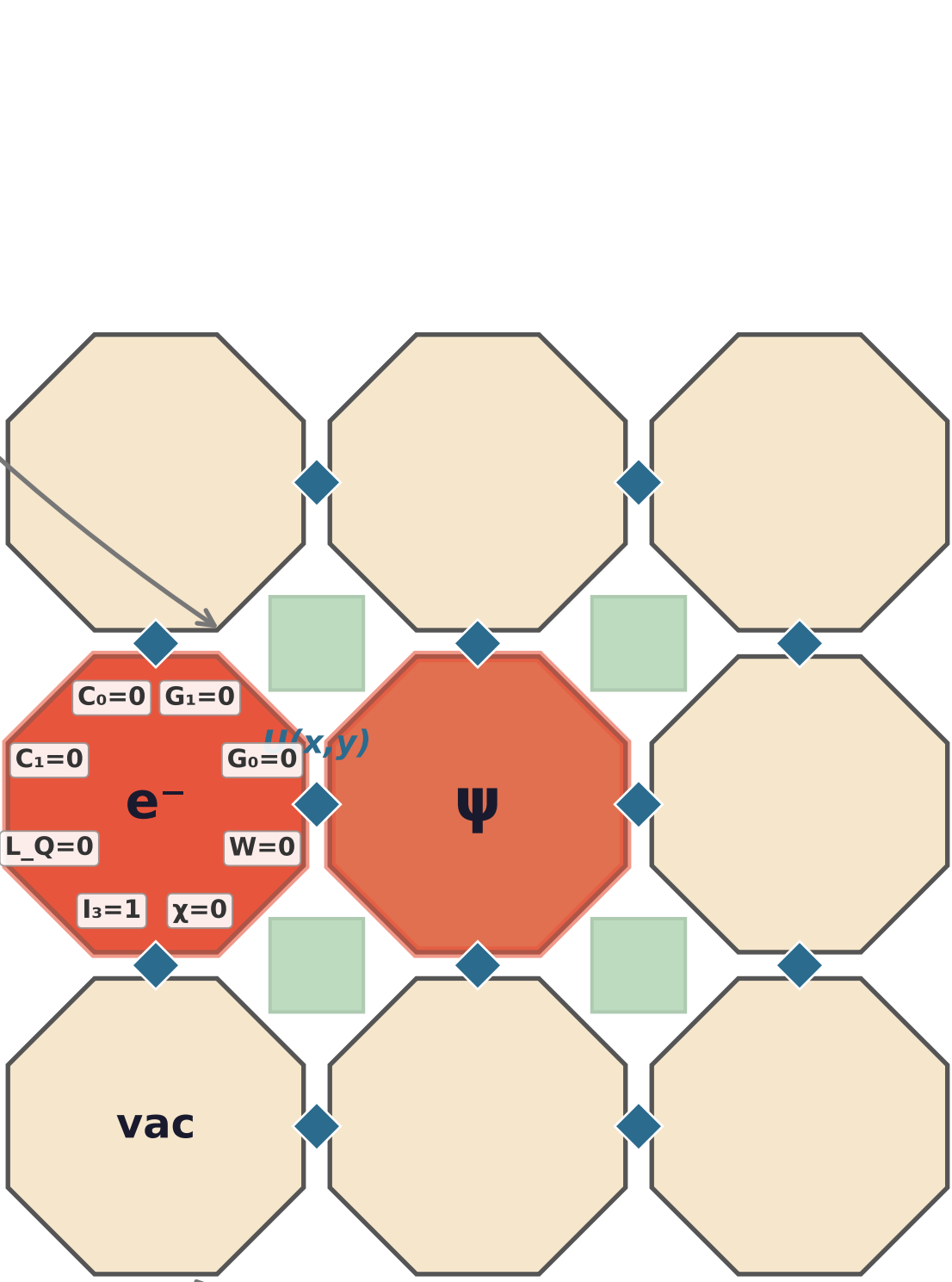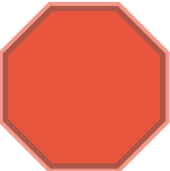# The Circlette Lattice

*4.8.8 tiling as topological wiring diagram,*
*not spatial geometry*

**Particle = propagating**
**pattern of excitations**
**("information glider")**

**Circlette**
**(vacuum)**

**Circlette**
**(excited)**

**Link channel**
**U(1) gauge phase**

**Plaquette**
**(Wilson loop)**

$C_0=0$ $G_1=0$

$C_1=0$ $G_0=0$ $U(x,y)$

$e^-$ $\Psi$

$L\_Q=0$ $W=0$

$I_3=1$ $\chi=0$

**vac**

**Vacuum = every node**
**occupied but unexcited**
**(ground state register)**

Each octagon is an isolated 8-bit register (circlette) owning all its bits absolutely.

Edges are communication channels (links), not shared boundaries.

Code length n = 8 matches the 8-channel coordination capacity of the graph.

Physical motion is the transfer of valid codeword patterns across links.