reflect J_B and change its parity
(ρ becomes white)

$|K_B|=|J_B|$

$|-K_B|=|-J_B|$

T_B^2

T_A^2

$\tilde{T}_B^2$

$\tilde{T}_A^2$

$T^2 \times [0,\varepsilon]$

$\tilde{T}^2 \times [0,\varepsilon]$

cylinder(α)

J

J'

$|K_A|=|J_A|$

$|K_A|=|J_A|$
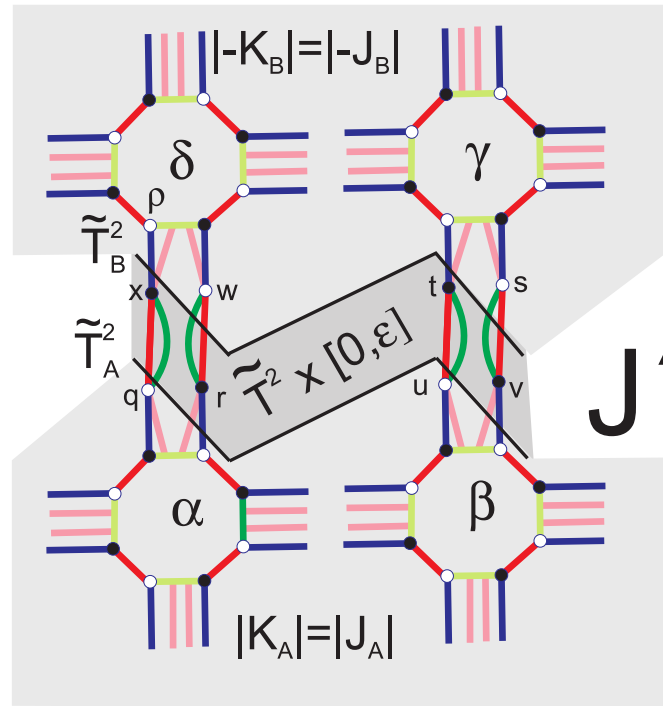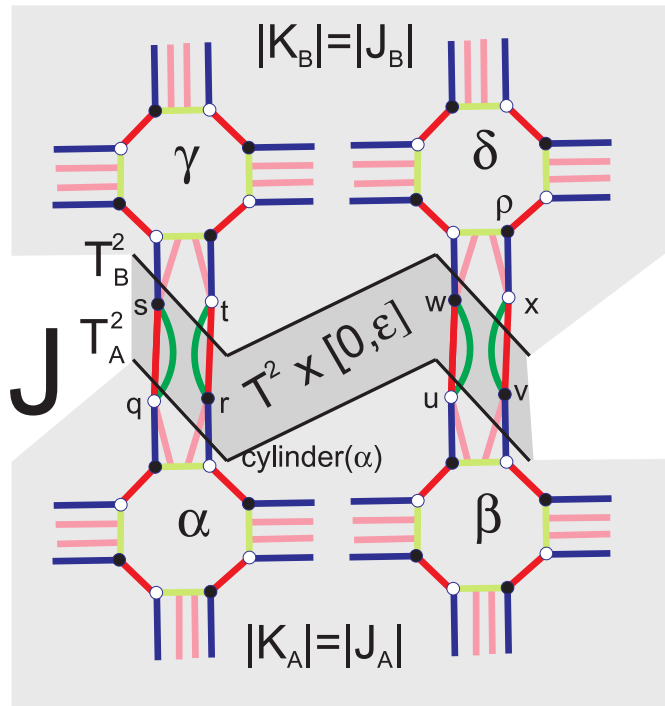
3D-flip without changing gem J'

$|-K_B|=|-J_B|$

$\tilde{T}_B^2$

$\tilde{T}_A^2$

$\tilde{T}^2 \times [0,\varepsilon]$

J'

$|K_A|=|J_A|$