reflect J_B and change its parity
(ρ becomes white)

$|K_B|=|J_B|$

T_B^2
T_A^2

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

cylinder(α)

γ δ ρ

α β

$|K_A|=|J_A|$

$|-K_B|=|-J_B|$

δ ρ γ

$\tilde{T}_B^2$
$\tilde{T}_A^2$

$\tilde{T}^2 \times [0,\varepsilon]$ J'

α β

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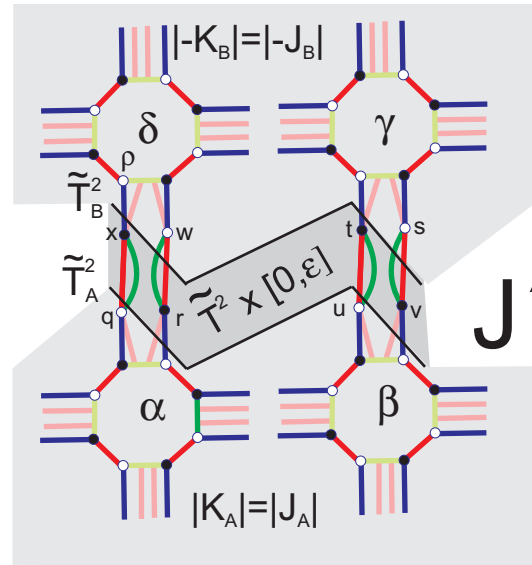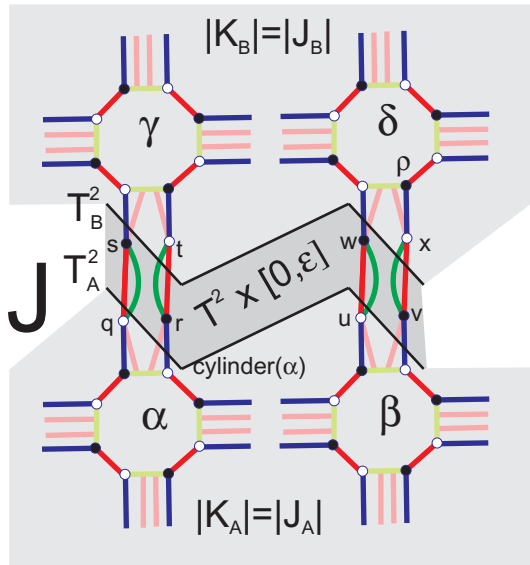
3D-flip without changing gem J'

$|-K_B|=|-J_B|$

γ δ ρ

$\tilde{T}_B^2$

$\tilde{T}_A^2$

$\tilde{T}^2 \times [0,\varepsilon]$ J'

α β

$|K_A|=|J_A|$