

## Emergence

$$-V + \frac{R \left(-\xi \Phi^2(x) + 1\right)}{16 \pi G} \tag{1}$$

## Symmetry

$$N_{bulk eff} = \frac{N_{surf}}{2} \tag{2}$$

## Nu C

$$\nu_c = \kappa \sqrt{\nu_H \nu_P} \tag{3}$$

## Fermions

$$-\frac{\gamma_{\mu 0,0}}{2} + \frac{1}{2} \tag{4}$$