



### I. Bimetric Sectors

Spheres:  $\Sigma_+$  (Gold) and  $\Sigma_-$  (Cyan)  
Topology: Two distinct sheets meeting at  $x^\mu$ .

### II. Interaction Medium

Region: Overlap  $\Sigma_+ \cap \Sigma_-$   
Coupling:  $V(\Phi_+, \Phi_-)$  mixes the sectors.  
Dynamics: Energy exchange occurs here.

### III. Holographic Result

Effective Field:  $\Psi = \Psi_+ + \Psi_- + \Psi_{int}$