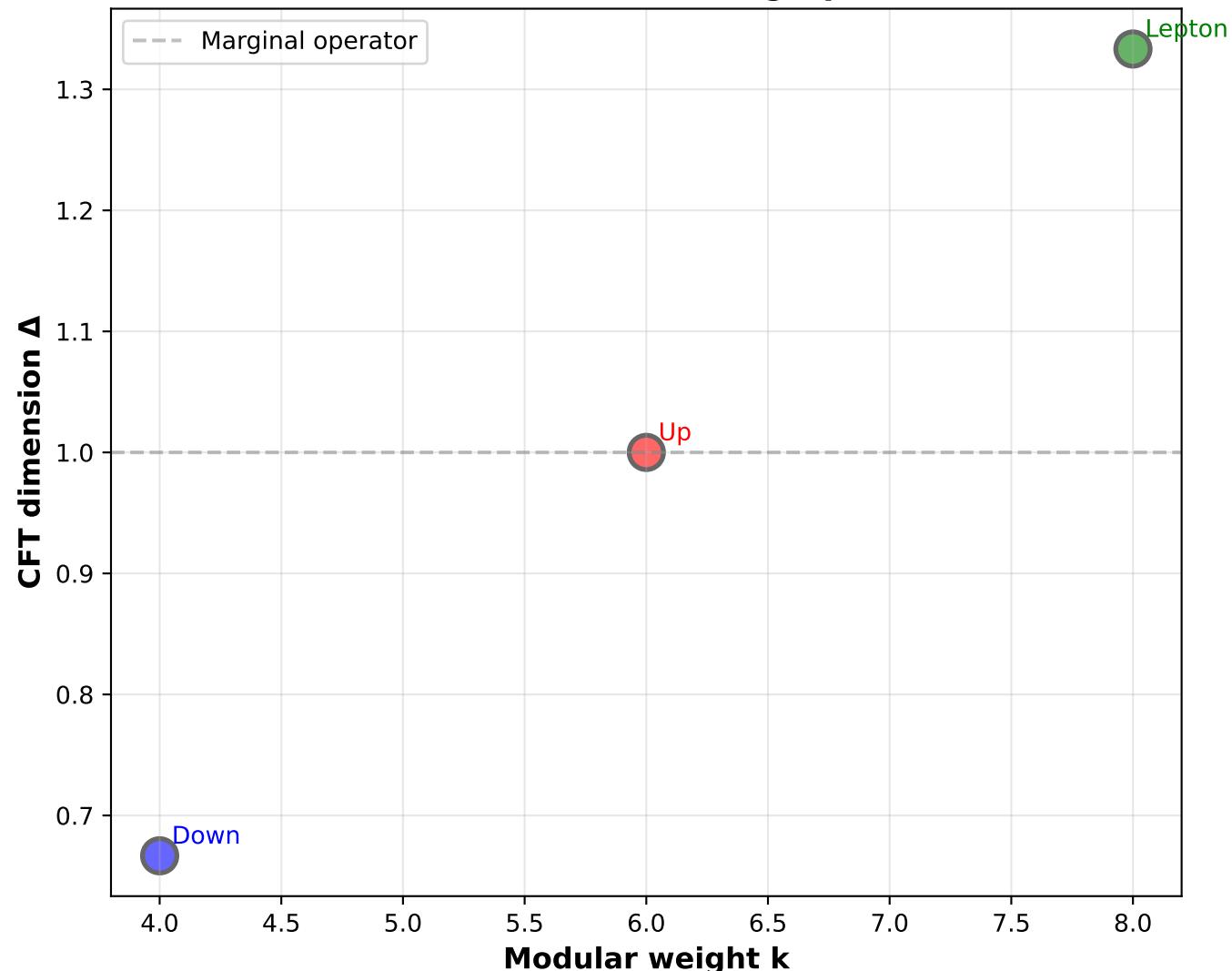
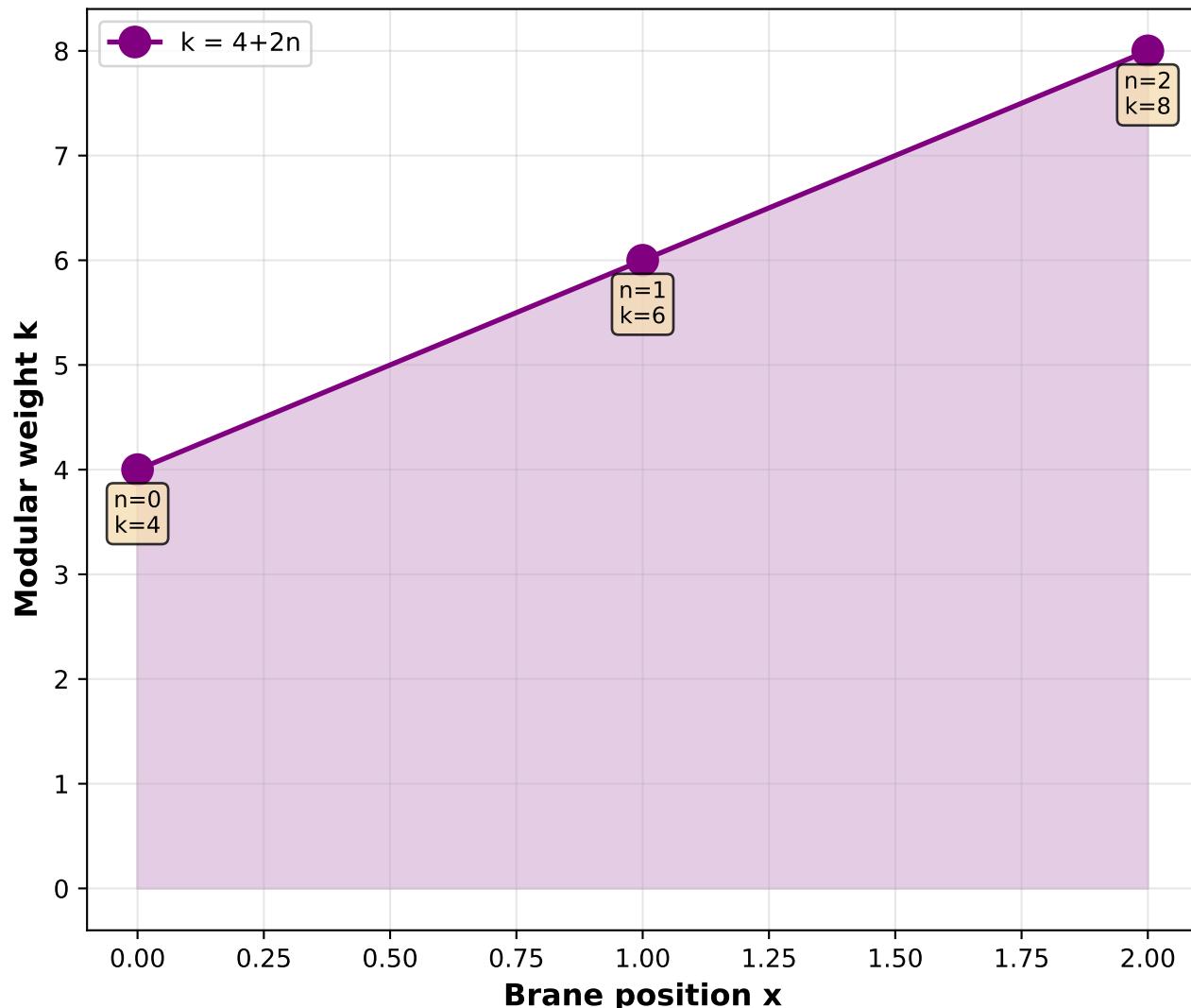
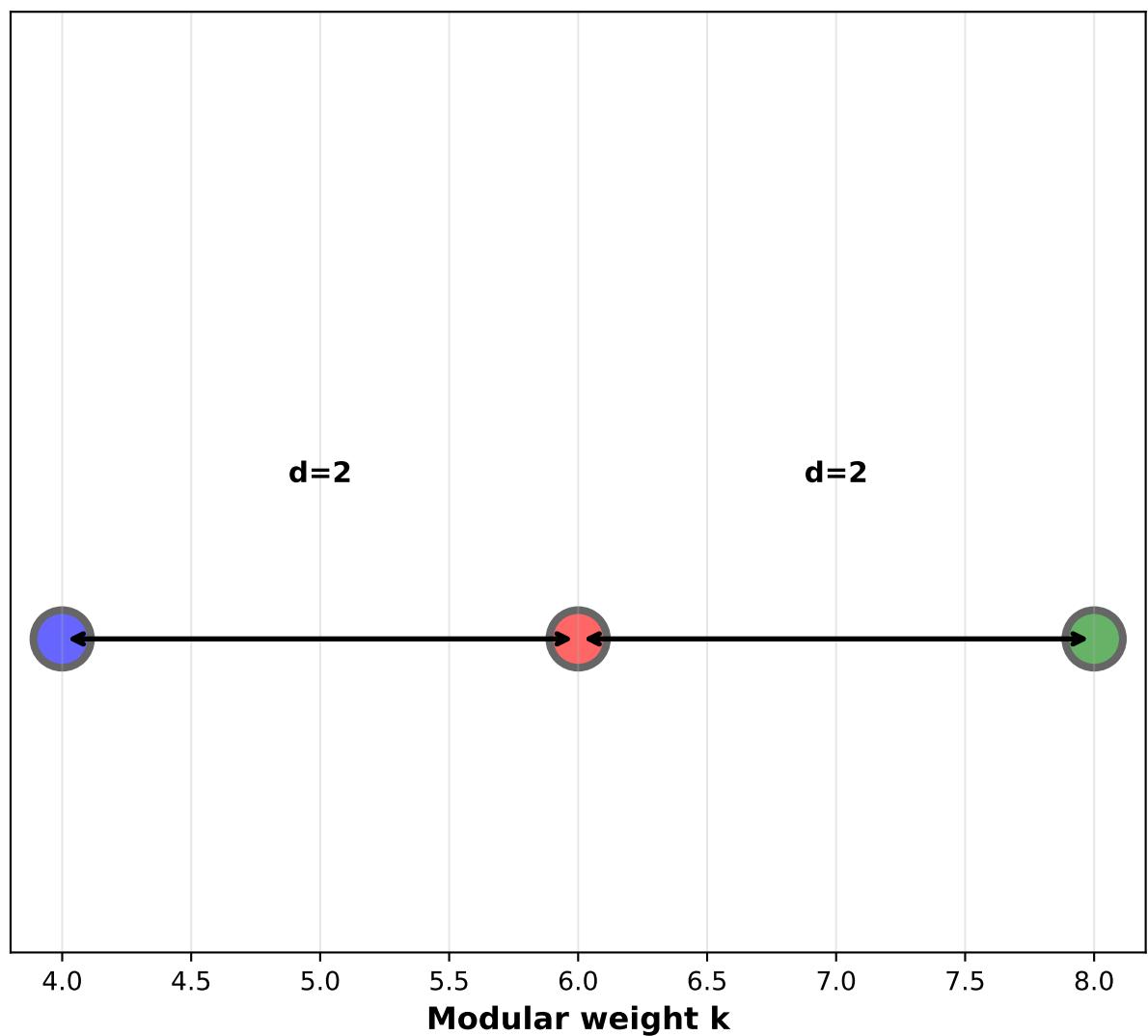


A: Modular Flavor \rightarrow Holographic CFT**B: $\Delta k = 2 \leftrightarrow 1$ bit of information****C: Code distance $d=2 \rightarrow$ Detectable errors****UNIFIED PICTURE**

```

Information substrate
↓
Error-correcting code
↓
Spacetime locality emerges
↓
String theory (unique consistent code)
↓
D-branes at  $x = (0, 1, 2)$ 
↓
Flux quantization:  $n = (0, 1, 2)$ 
↓
Modular weights:  $k = 4+2n = (4, 6, 8)$ 
↓
Modular parameter:  $\tau = 13/\Delta k \approx 3.25i$ 
↓
Yukawa couplings:  $Y \propto e^{(2\pi i k \tau)}$ 
↓
Observable masses:  $m_i / m_j = |Y_i / Y_j|$ 
Zero free parameters in flavor sector!

```