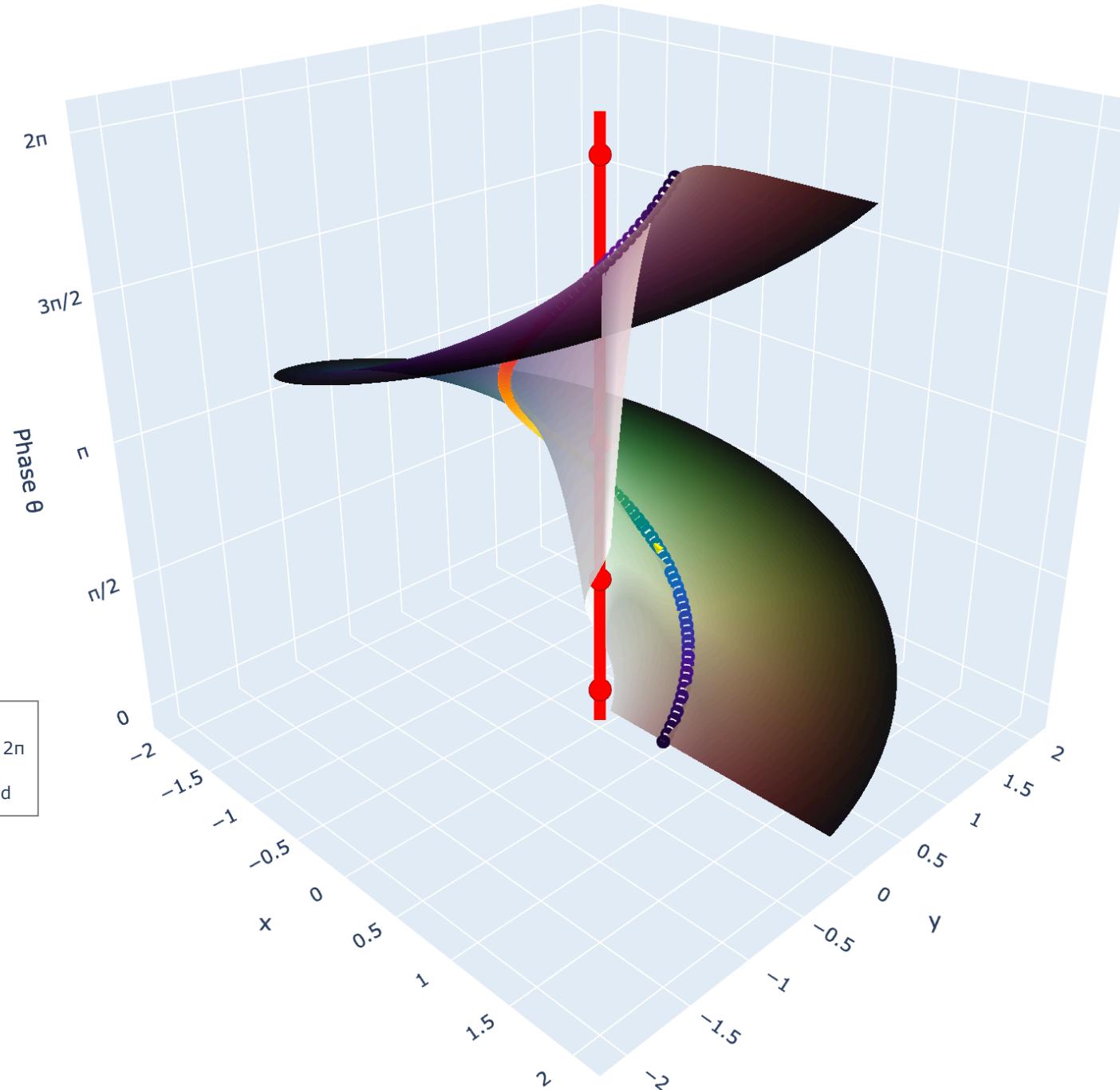


Chiral Vortex: Phase Winding (twist) \times Amplitude (funnel) \rightarrow Particle at Core

█ Particle (vortex core)
● Winding loop (2π)



Topology creates the particle:
 Loop around core \rightarrow phase winds 2π
 This winding cannot be removed
 \therefore Particle is topologically protected

Surface encodes:
 Twist = Phase $\theta \neq 0$ | Funnel = $|x| \rightarrow 0$
 Brightness = $|J_s|$ (current)