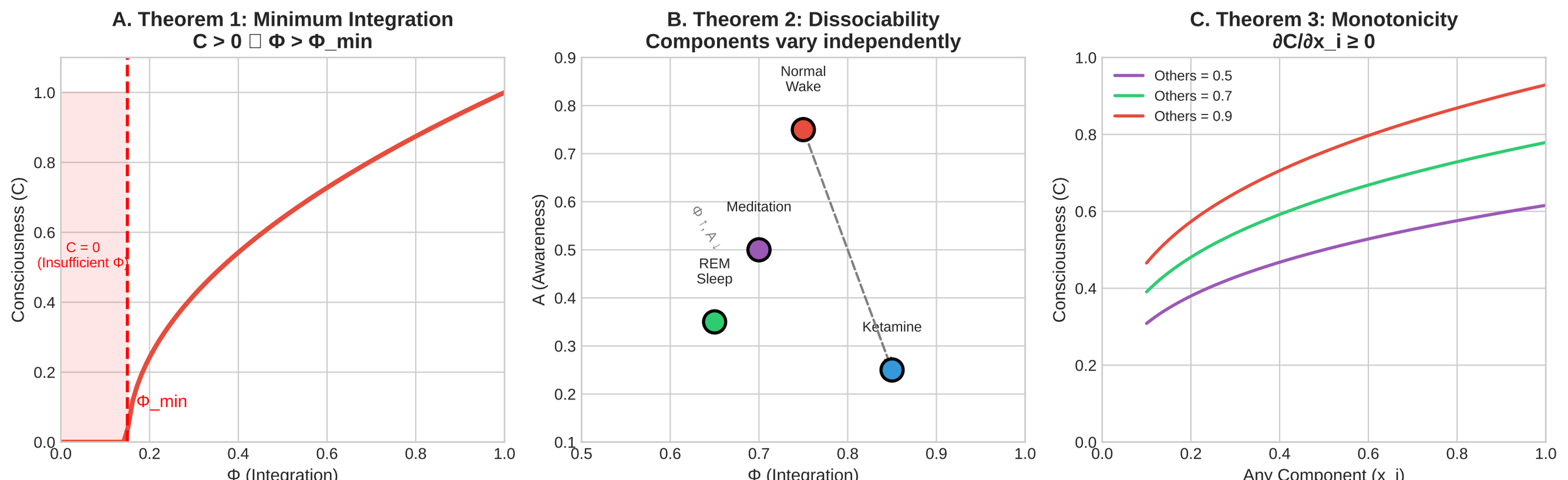
A. Theorem 1: Minimum Integration
C > 0 □ Φ > Φ_min
Consciousness (C)
Φ (Integration)
C = 0
(Insufficient Φ)
Φ_min
0.0
0.2
0.4
0.6
0.8
1.0
B. Theorem 2: Dissociability
Components vary independently
A (Awareness)
Φ (Integration)
Normal
Wake
Meditation
REM
Sleep
Ketamine
ΔΦ, ΔA
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
C. Theorem 3: Monotonicity
∂C/∂x_i ≥ 0
Consciousness (C)
Any Component (x_i)
Others = 0.5
Others = 0.7
Others = 0.9