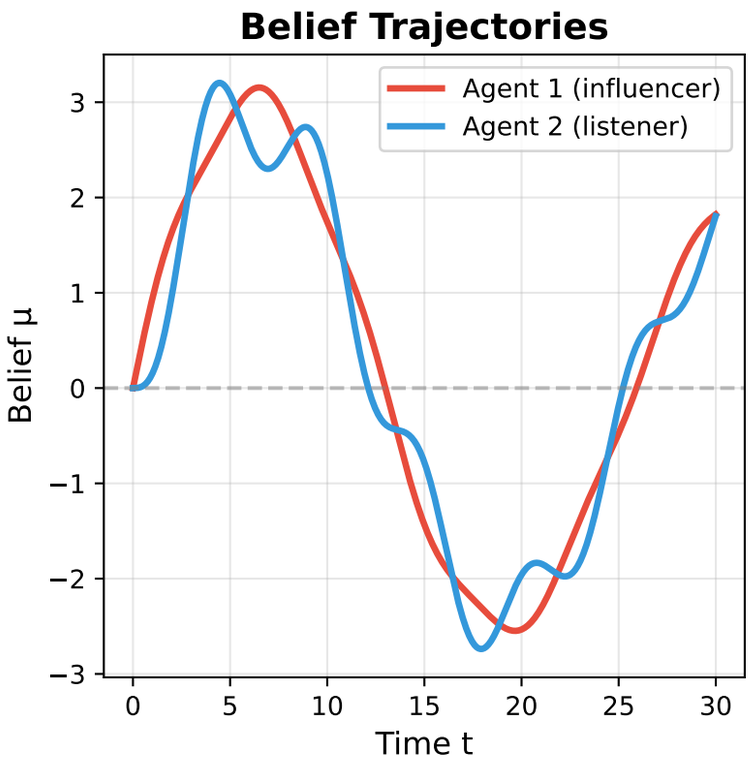
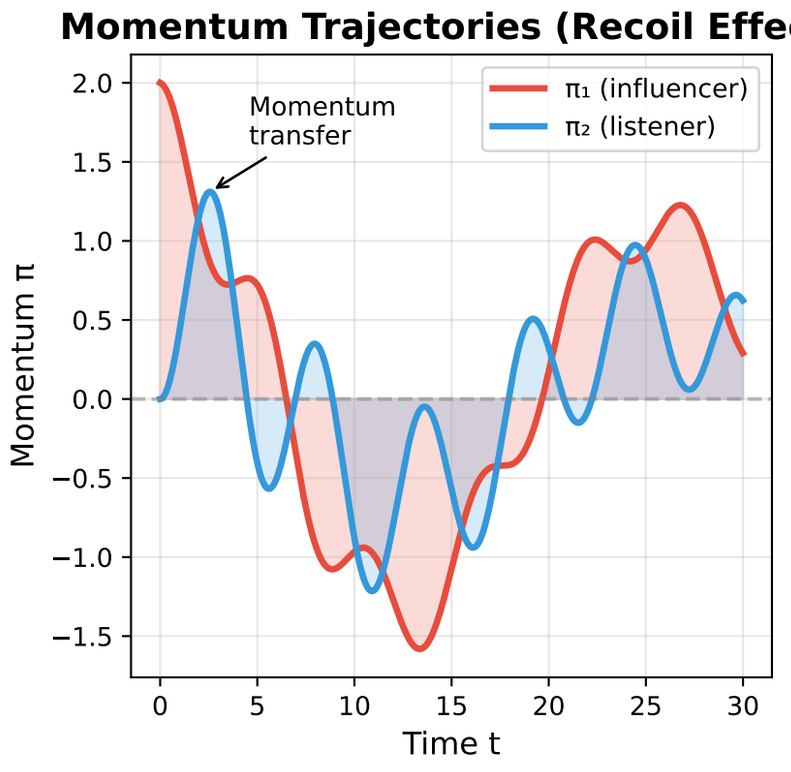
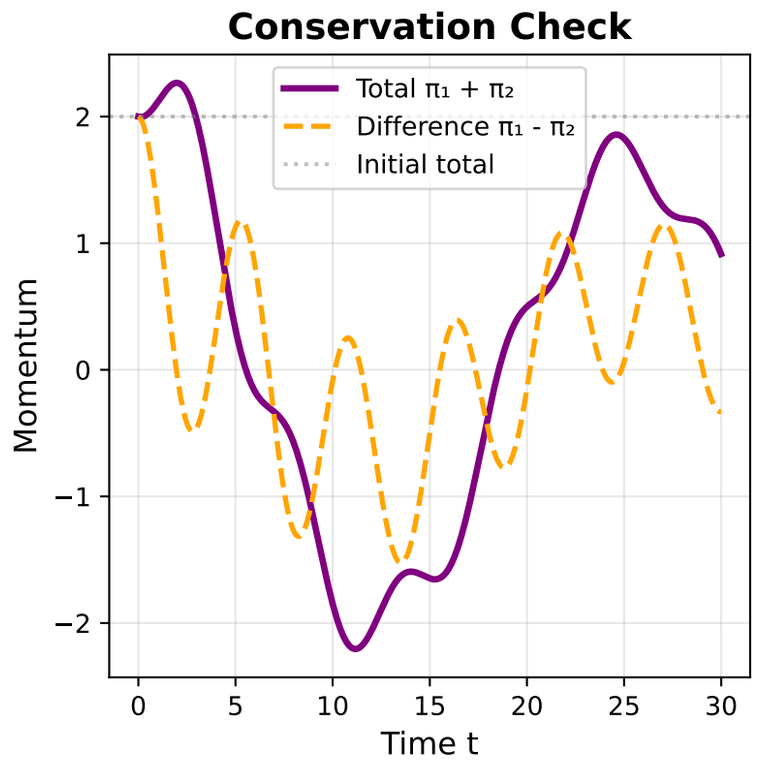
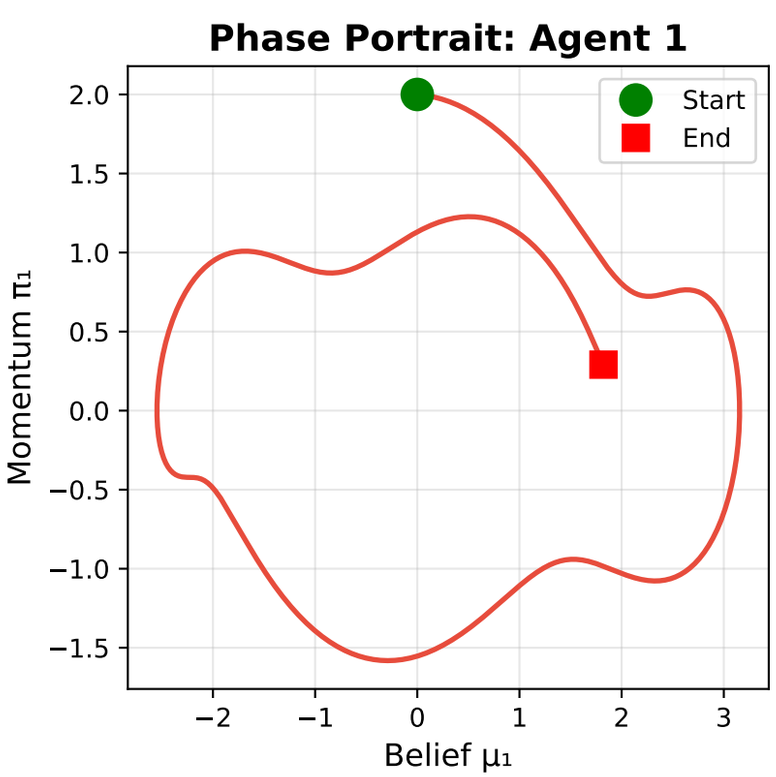
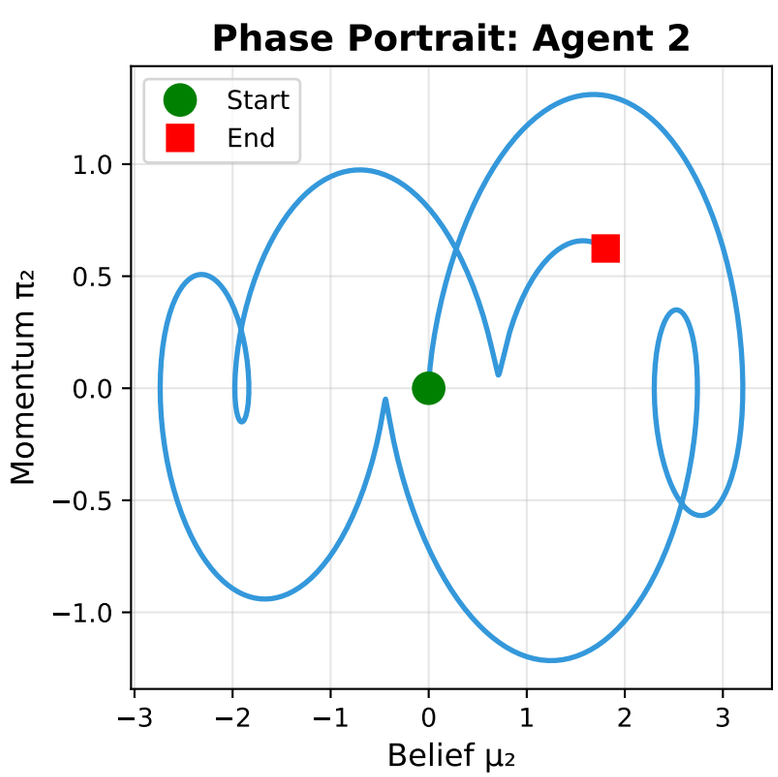
Two-Agent Momentum Transfer: The Recoil Effect









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MOMENTUM TRANSFER ANALYSIS

Initial State:
• Agent 1: π₁(0) = 2.00 (moving)
• Agent 2: π₂(0) = 0.00 (at rest)

Key Results (Eq. 48-52):
• Agent 1 momentum drop: Δπ₁ = 3.58
• Agent 2 peak momentum: π₂_max = 1.31
• Transfer efficiency: 65.5%

RECOIL EFFECT CONFIRMED:
The influencer's momentum decreases
as momentum flows to coupled partner.

Momentum Current (Eq. 52):
J_{k→i} = β_{ik} Λ̃_k (μ̃_k - μ_i)

Precision ratio: Λ₁/Λ₂ = 2.00
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