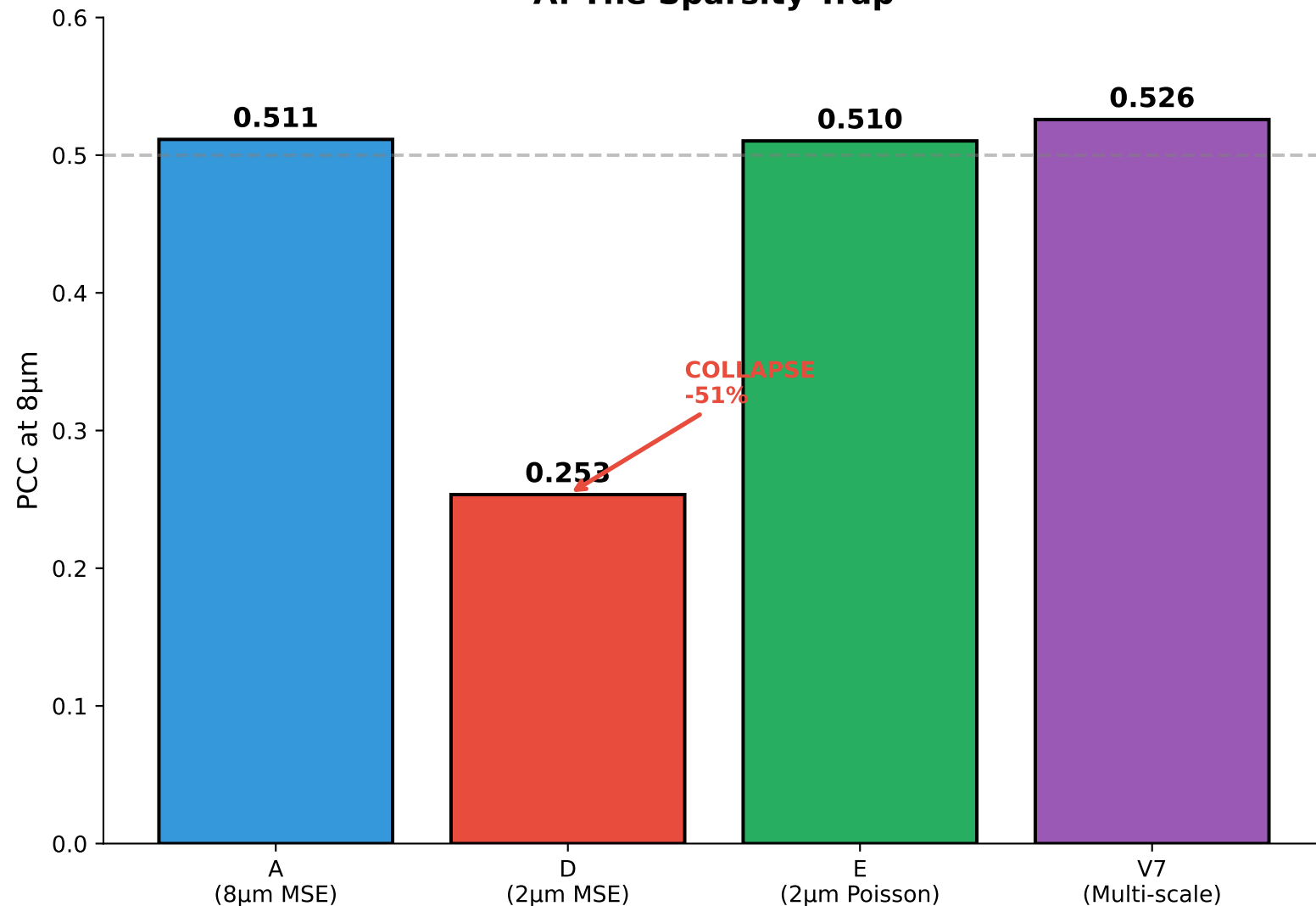


A. The Sparsity Trap



B. Summary

Key Findings:

1. THE SPARSITY TRAP
Model D (MSE on 2μm): PCC = 0.253
Model E (Poisson on 2μm): PCC = 0.510
→ Poisson prevents regression-to-mean
2. THE RECOVERY PROOF
Model A (trained on 8μm): PCC = 0.511
Model E (trained on 2μm): PCC = 0.510
→ 2μm data IS usable with correct loss
3. THE DENSITY CEILING
All methods: PCC_{2μm} ≈ 0.35
→ Stochastic noise caps pixel-wise correlation
→ Use SSIM for fine structure evaluation