

TU-GUT-SYSY v26 – 11 December 2025

Superluminal Expansion as Entanglement Horizon from Turbulence-Induced Saturation

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Abstract

v26 interprets superluminal recession ($v_{rec} > c$ for $z > 1.5$, *DESI2025*) as an entanglement horizon created by turbulence-induced saturation (v25). The observed Hubble flow emerges from frozen linking in turbulent cosmic fields, consistent

1 Superluminal Recession

Observed: $v_{rec} = H_0 d > c$ for $d > c/H_0$ 14Gly (*DESI2025*). TU-GUT-SYSY : Saturation freezes linking Bho

2 Turbulence Bridge (from v25)

Turbulence adds L^{-2} to Dirac $S = \ln(4) \rightarrow S = \ln(6)$. At $R_{coh} = 1kpc$, horizon distance = c/H_0 14Gly β match observed.

3 Conclusion

Superluminal expansion is the cosmological signature of entanglement horizons from turbulence saturation. Testable with DESI BAO (2026+).