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Interests: The large and the small

particle theory ideas applied to cosmology
unparticles in cosmology

The inflationary picture

holes in the ediface
the trans-Planckian problem
testing inflation

- Recent work:
- H. Collins, “Trans-Planckian relics in the scalar to tensor ratio,” *in preparation*.
 - H. Collins and R. Holman, “Unparticles and inflation,” *Phys. Rev. D* 78, 025023 (2008).
 - H. Collins and R. Holman, “Trans-Planckian signals from the breaking of local Lorentz invariance,” *Phys. Rev. D* 77, 105016 (2008).