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The spectral index may be blue: superhorizon coupling to subhorizon modes.

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In a universe much larger than our current Hubble volume, locally unobservable long wavelength modes can induce a scale-dependence in the power spectrum of typical subvolumes, so that the observed spectral index varies at a cosmologically significant level. This talk will explain how super-Hubble dynamics can impact sub-Hubble measurements and survey the features of inflation models that would yield Hubble volumes with significantly varying spectral indices.

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