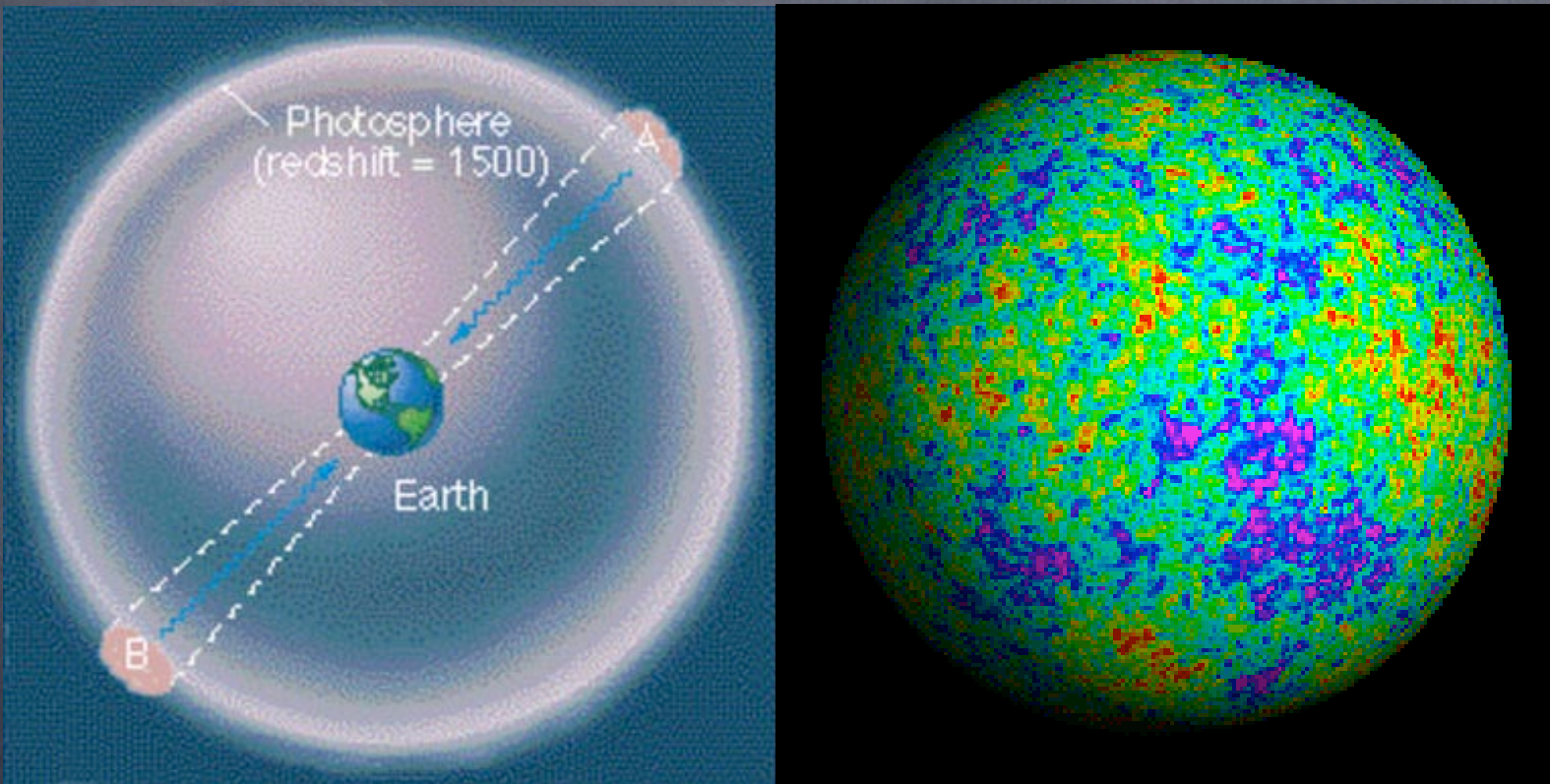


Chapter 23: Pocket Universes

Andreas Karch



Cosmological Horizon

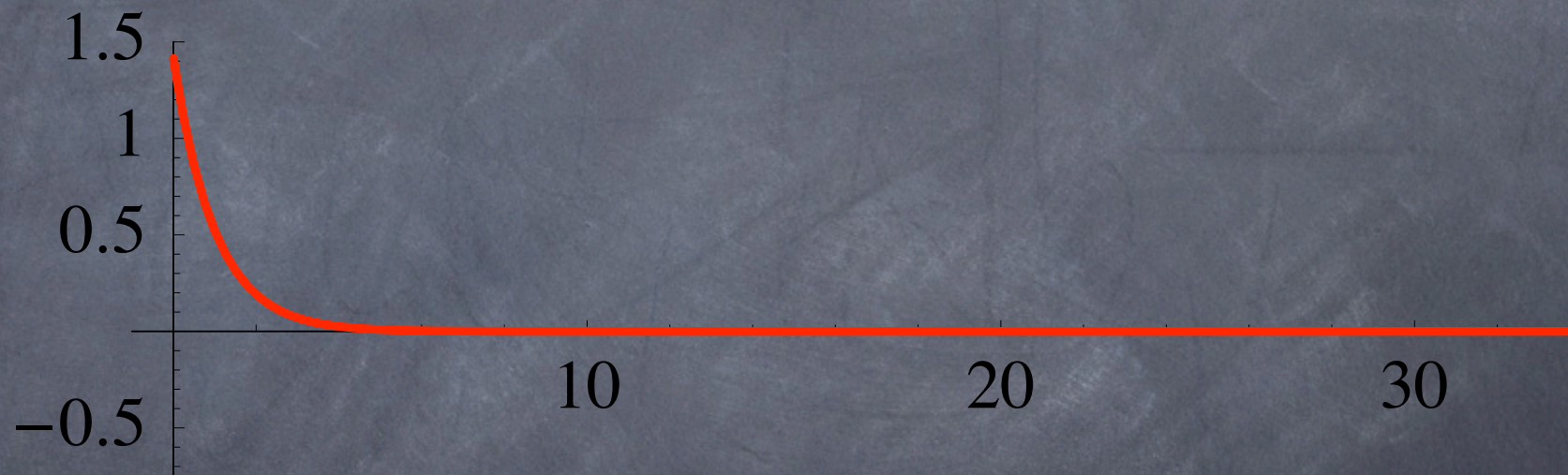


We can't possibly see farther
than 14 billion light years

Cosmological Horizon

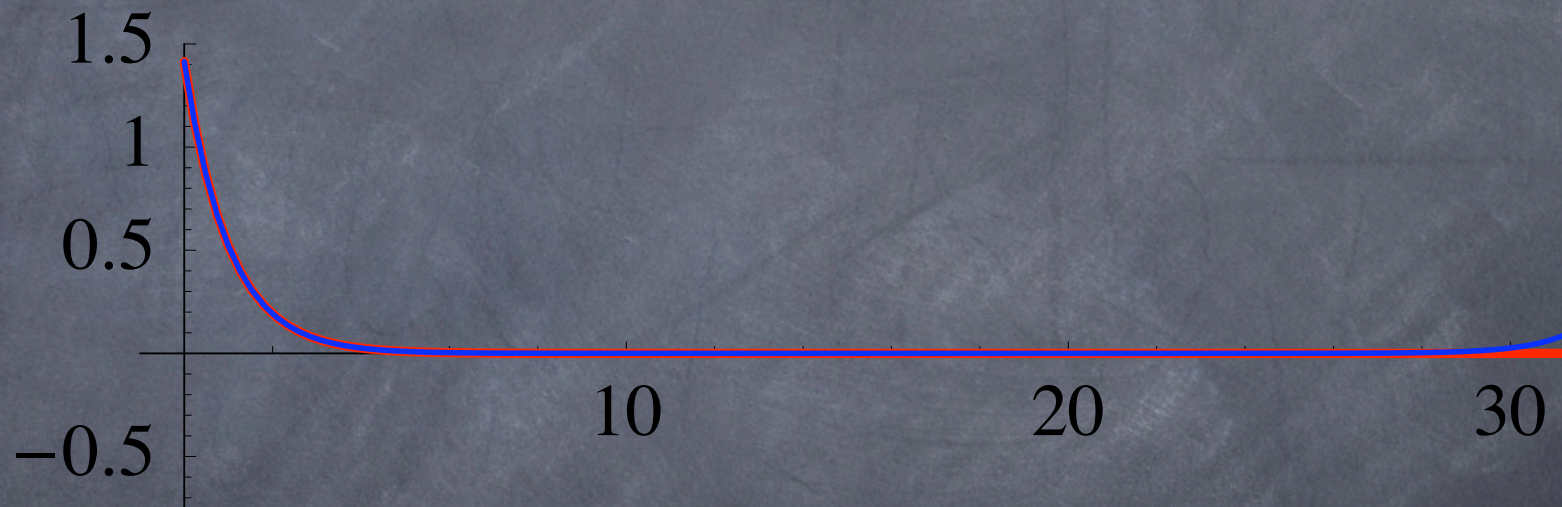
Is the Universe 4 dimensional
beyond the horizon?

Locally Localized Graviton Probability



Gravity
brane

Locally Localized Graviton Probability

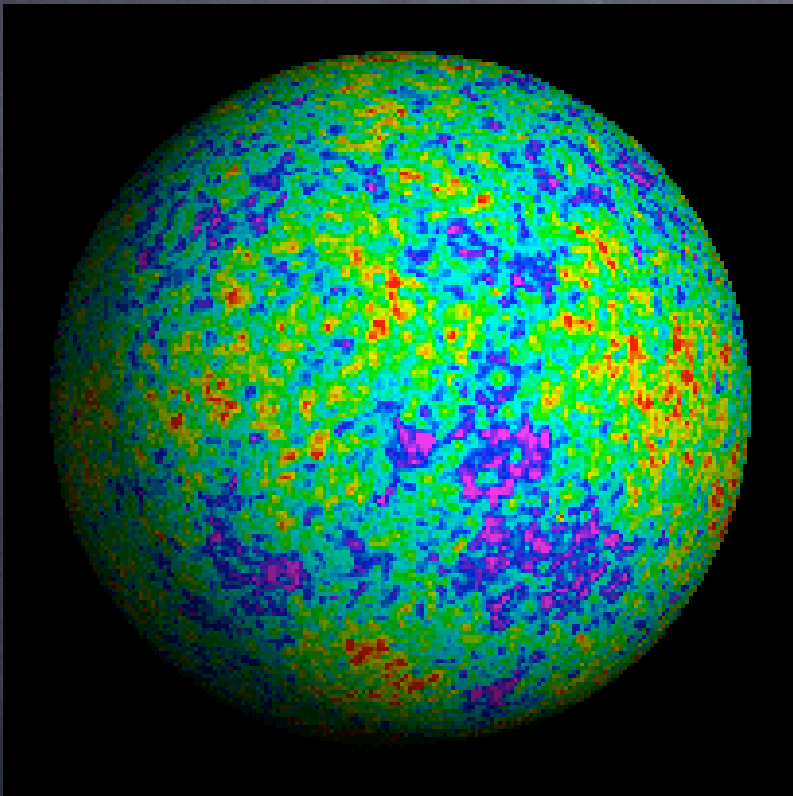


Gravity
brane

Kogan, Porrati



Graviton Mass & Horizon



$$m_{\text{graviton}} < \frac{1}{H} \sim 10^{-33} \text{ eV}$$

We can't measure wavelengths
bigger than the horizon