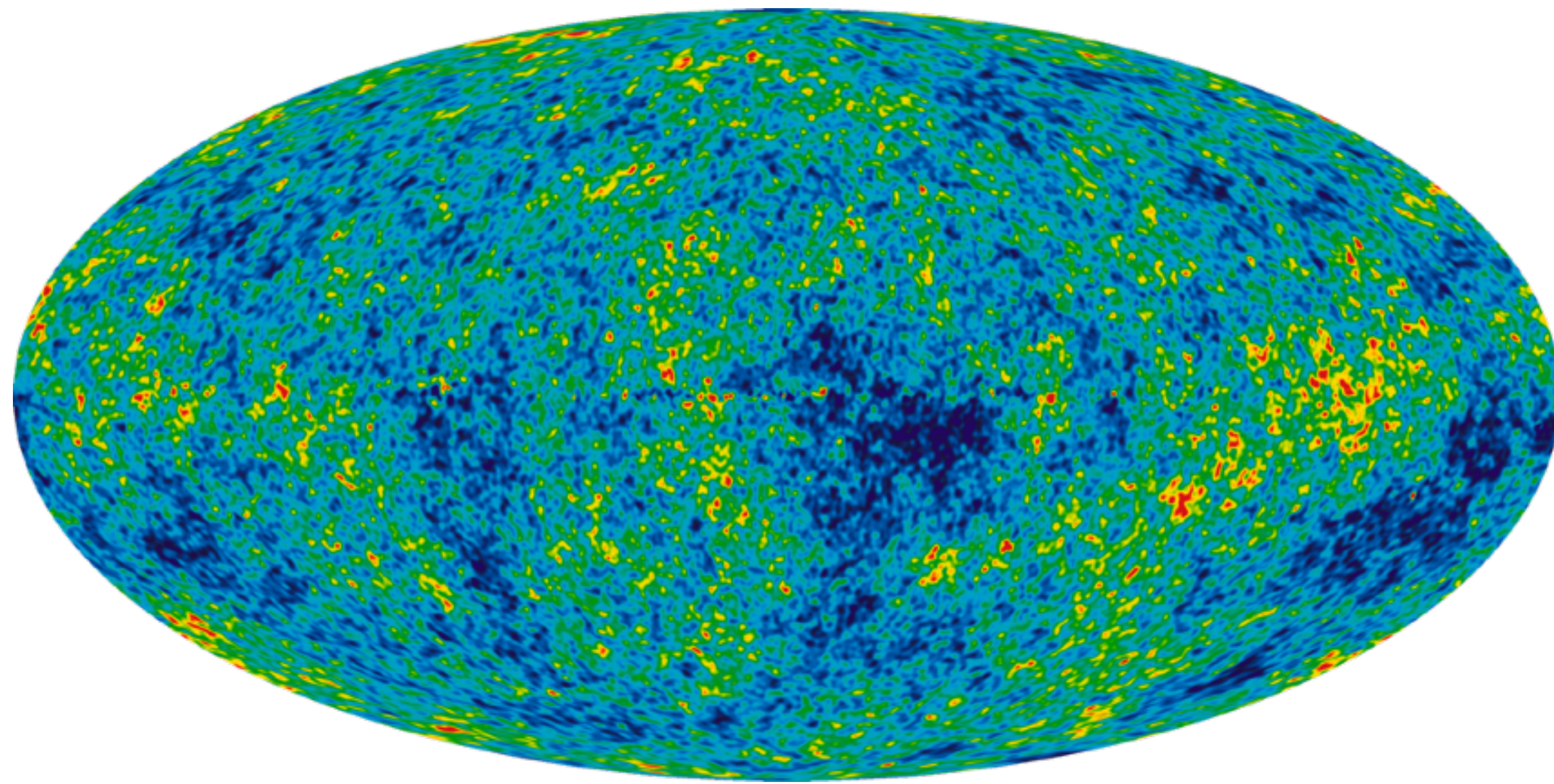


# Cosmological Story:

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Spectrum of cosmological light,  
reflecting a temperature of 10,000  
Kelvin many years ago

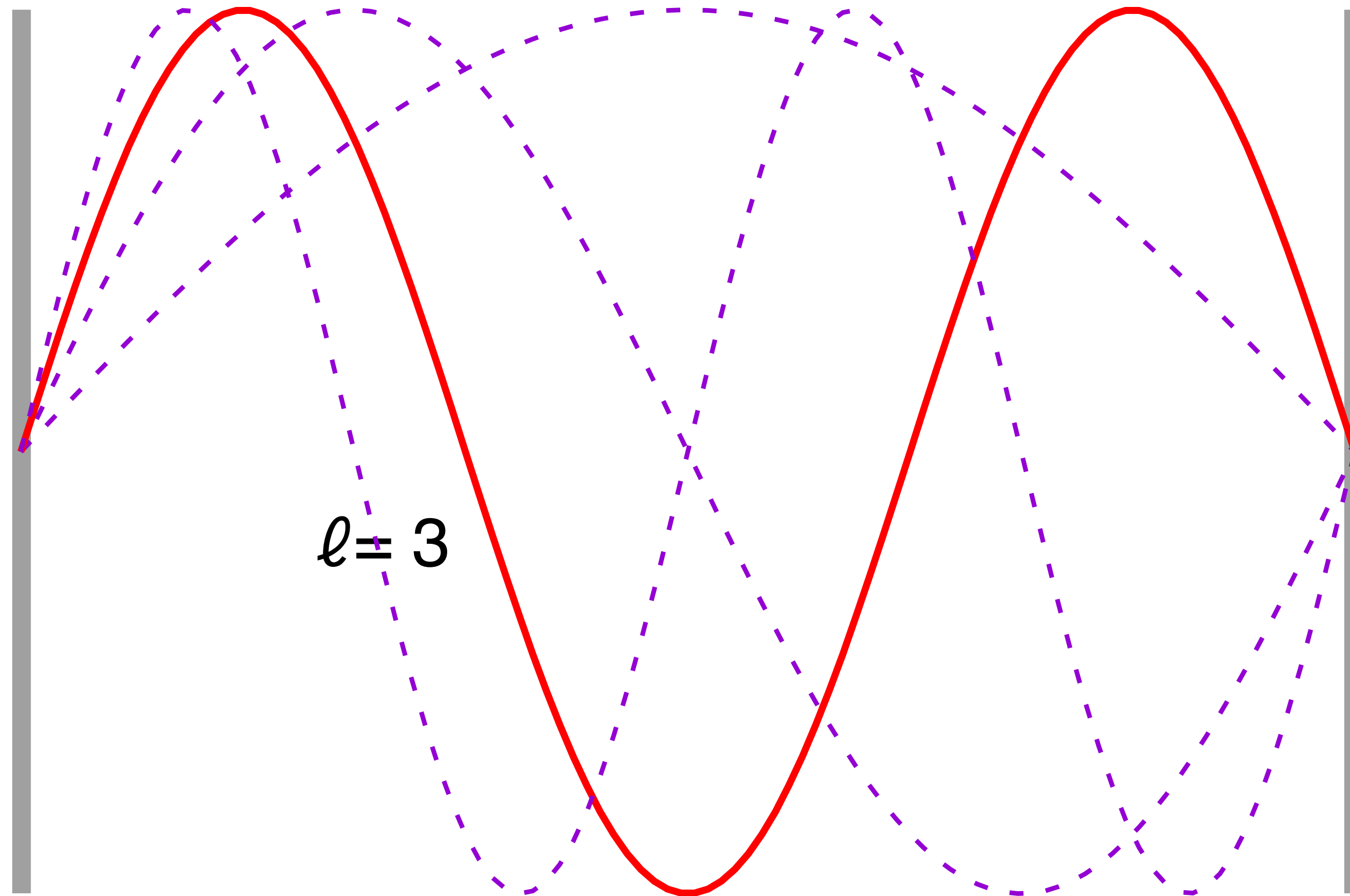


13.6 Billion Years ago the universe  
was approximately 10,000 Kelvin

Then at this time the electrons and  
protons recombined, making neutral  
hydrogen. Since then, the light has  
been traveling freely, but becoming  
redshifted, to a lower effective  
temperature. We measure light at  
temperature of  $2.7^{\circ}\text{K}$  everywhere in  
the sky, reflecting  $10,000^{\circ}\text{K}$  from  
13.6 billion years ago.

# Single particle modes in a box

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Each mode in the box is sharing the energy and particles with the other modes of the box