

## **Ask A Genius 40 - Informational Cosmology 16**

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**Scott: Define T=0.**

Rick: In Big Bang physics, in any reasonable physics, the farther away you look into the universe on huge scales, many millions and billions of light years, the further away you look the further away a star and galaxy is then the more in the past you're seeing it because the light has taken millions and billions of years depending on the distance to get to you.

Since you're looking at something in the past, you're also looking at something younger. The universe is suffused with Big Bang radiation, which consists of super old photons that are close to 13 1/2 billion years old and they come from a time when the universe was very small and very young, close to what we're calling T=0.

But under Big Bang physics, the whole universe ages and expands at the same rate, so even though you're getting photons from a young universe. There is no young universe to be found anywhere in a big bang universe. By the time you got to the place, to the star that you saw as being very young, it would take you so long to get to the star plus other effects, the star would be at least the same age as where you left.

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