The Universe is a Black Hole

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Abstract

With new cosmological equation’s will be shown, that the Universe is a Black Hole.

1 The Cosmic Background Radiation

We could calculate the CBR ($T_\gamma$) as follows (see [1]):

$$E_\gamma = \frac{hc}{x} = 6.0808837383kT_\gamma \ with \ T_\gamma = 2.725K$$

We could calculate $m_\gamma = 2.5444e^{-39}kg$ and $x = \lambda_\gamma = 8.6828e^{-4}m$, also $t_\gamma = \frac{\lambda_\gamma}{c} = 2.8963e^{-12}s$.

For the Universe as a Black Hole we receive:

$$E_{BH} = \frac{hc}{R} = 6.0808837383kT_{BH}$$

We receive for the Bekenstein-Hawking Temperature of a Black hole ($\zeta = 2.1432e^{31}$):

$$T_{BH} = \frac{hc}{6.0808837383kR} = \frac{T_\gamma}{\zeta} = 1.2715e^{-31}K$$
2 References