The Hubble formula at large distances

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Abstract

A formula, for the relationship between the speed of galaxy and the distance to it, is proposed. It passes into the Hubble formula at small distances.

The Hubble formula is: $\dot{r} = H \cdot r$

The proposed formula is: $\dot{r} = \dfrac{H \cdot r}{\sqrt{1 + \dfrac{H^2 \cdot r^2}{c^2}}}$

Here H is the Hubble constant, c - the light speed.

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