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## Three characteristic relations of a simple model of quantum cosmology

We propose three characteristic relations in developing a simple model of quantum cosmology. We assure the reader that by studying and analyzing them, Lambda cosmology can be refined with ease and clarity.

Relation-1: Galactic light travel distances can be fitted with,  $d_G \cong \left(\frac{z}{1+z}\right) \left(\frac{c}{H_0}\right)$ .

Relation-2: Relation between current cosmic temperature and Hubble parameter can be expressed as,  $T_0 \cong \frac{\hbar c^3}{8\pi k_B G \sqrt{M_0 M_{pl}}} \cong \frac{\hbar \sqrt{H_0 H_{pl}}}{4\pi K_B}$  where  $\frac{2GM_0}{c^2} \cong \frac{c}{H_0}$ ,  $M_{pl} \cong \sqrt{\frac{\hbar c}{G}}$  and  $H_{pl} \cong \frac{1}{2} \sqrt{\frac{c^5}{G\hbar}}$ .

Relation-3: For any galaxy, virtual dark matter can be estimated as,  $(M_{dark})_G \cong \left[ \frac{(M_{baryon})_G^{3/2}}{(4.0 \times 10^{38})^{1/2}} \right]$  kg where  $4.0 \times 10^{38}$  kg  $\cong$  200 Million solar masses can be called as the 'current dark matter reference mass unit'.

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