LETTER TO THE EDITOR

There is an error in my article "Spectral Distribution of Radiant Energy" [UFN, 78, 463 (1962), Soviet Phys. Uspekhi 5, 908 (1963)]. I state that Eq. (6)

$$\varphi(X) = \frac{\Delta\eta}{\Delta\lambda/\lambda} = \frac{f(X)}{6.4939}$$

(p. 465 of original and 909 of the translation) gives the black-body radiation efficiency per octave, implying that the spectral interval for which the efficiency is calculated is equal to one octave, i.e., a spectral interval in which the wavelength changes by a factor of two. More careful analysis has shown that $\Delta\eta$ divided by the ratio $\Delta\lambda/\lambda = \Delta\ln\lambda$ is equivalent to evaluating the efficiency for a spectral interval within which the natural logarithm of the wavelength changes by unity, and the wavelength itself changes by a factor e = 2.818. . . This spectral interval can be called one natural logarithmic unit. Consequently in all cases where an octave is mentioned in the text the reference is to a spectral interval equal to one natural logarithmic unit.

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