

Abstract Submitted
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On a New Analysis of the Problem of the Planck Constant

TEMUR KALANOV, Home of Physical Problems, Pisatelskaya 6a, 700200 Tashkent, Uzbekistan — A new analysis of the problem of Planck constant is proposed. The analysis is based on the formal logic. It is shown [1] that well-known formula $E_n \equiv h\nu_n$ (where E_n , h , and ν_n are energy, Planck constant (i.e. quantum of action), and the frequency of the periodic process of mutual transformation of the internal and external motions, respectively) is correct if ν_n is the frequency of oscillation of Planck constant. In other words, multiplication of the quantities h and ν_n is permitted by logic law of identity if h is an oscillating quantity. Ref.: [1] T.Z. Kalanov, "The correct theoretical analysis of the foundations of classical thermodynamics," Bull. of Pure and Applied Sciences, Vol. 26D, No 2 (2007), pp. 109-118.

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