

Abstract Submitted  
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**On the Correct Theoretical Analysis of the Foundations of Quantum Mechanics** TEMUR Z. KALANOV, Home of Physical Problems, Pisatelskaya 6a, 700200 Tashkent, Uzbekistan — The correct critical analysis of the generally accepted foundations of quantum mechanics is proposed [1]. The purpose of the analysis is to prove that the foundations include logical errors. The principle of the unity of formal logic and dialectics is a methodological basis of the analysis. The result is as follows: (a) the generally accepted foundations (i.e., the interpretation of the experimental data on diffraction of quantum particles; the conception of wave-corpuscle dualism; the probabilistic interpretation of the psi-function) are logical errors; (b) the pseudo-informational meaning is the true meaning of the psi-function. Conclusion is that quantum mechanics is not a physical, objective theory but a pseudo-informational one. Therefore, quantum mechanics should be replaced by a physical, objective quantum theory. Ref.: [1] T.Z. Kalanov. JUSPS, Vol. 16, No. 2 (2004), pp. 191–198, <http://www.ultrascientist.org>.

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