

Abstract Submitted
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On a New Approach to the Solution of the Problem of Quantization of Energy TEMUR Z. KALANOV, Home of Physical Problems, Pisatelskaya 6a, 700200 Tashkent, Uzbekistan — In connection with the fact that foundations of quantum mechanics contain logical errors [1], the correct approach to the solution of the problem of quantization of energy is proposed. The correct approach is based on the following key idea: (1) properties of a particle do not exist separately of a particle; (2) energy is inalienable property of a particle; (3) energy levels of an object arise and disappear only as a result of absorption and emission of a particle, correspondingly. Hence, quantization of energy of an object is not the Shroendinger problem of eigenvalues and is the problem of absorption and emission of particles. Within the framework of work [2], this idea opens a way to new understanding of the problem of quantization of the energy of an object as the unified problem of quantization, of elementary particles, and of gravitation. Ref.: [1] T.Z. Kalanov, “On the correct theoretical analysis of the foundations of quantum mechanics.” Bulletin of the APS, Vol. 50, No. 2 (2005); [2] T.Z. Kalanov, “On a new basis of quantum theory.” Bulletin of the APS, Vol. 47, No. 2 (2002).

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