

Abstract Submitted  
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**Gravity as a Grand Unification of Forces** RASULKHOZHA SHARAFIDDINOV, Institute of Nuclear Physics of Uzbekistan Academy of Sciences — Any of all possible types of charges corresponds in nature to a kind of the inertial mass. Such a mass - charge duality of matter explains the coexistence of grand united rest mass and charge for the same neutrino equal respectively to its all the gravitational mass and charge which consist of the gravitoelectric, gravitoweak, gravitostrong and a range of others, innate components. From their point of view, a new grand unification theory has been created at the discussion of a question about unification of forces of a different nature. In this theory, the gravitational field must be naturally united gauge field of the unified system of the most diverse combinations of electromagnetic photons, weak bosons and strong gluons where the four pairs of forces of the micro world fundamental interactions are united. Some consequences and laboratory confirmations of the suggested theory have been listed which allow also to define the structure of the graviton as a grand united boson. Thereby it gives the possibility to directly look at the nature of the gravitational matter elucidating the interratio of intraneutrino forces and the problem of elementary particles chiral and mirror symmetries.

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