Unification of Non-Abelian SU(N) Gauge Theory and Gravitational Gauge Theory

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Abstract: In this paper, a general theory on unification of non-Abelian SU(N) gauge interactions and gravitational interactions is discussed. SU(N) gauge interactions and gravitational interactions are formulated on the similar basis and are unified in a semi-direct product group GSU(N). Based on this model, we can discuss unification of fundamental interactions of Nature.

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