

An possible explanation for three generations of leptons and quarks and the asymmetry of number of baryons and antibaryons based on the SU(5) grand unified model with hadrons as nontopological solitons

Tuesday, 9 August 2022 17:25 (15 minutes)

The three generations of leptons and quarks have been discovered. The left-right asymmetry in the weak interaction of leptons and quarks has been confirmed. Astronomical observations have showed that the number of baryons and antibaryons is asymmetrical in the observable cosmos. This paper shows that there is the same origin of the left-right asymmetry and the asymmetry of number of baryons and antibaryons. The three generations of leptons and quarks and the two sorts of asymmetry are explained in this paper based on the SU(5) grand unified model with hadrons as nontopological solitons.

Summary

Primary author: Prof. CHEN, Shi-Hao (Northeast Normal University)

Presenter: Prof. CHEN, Shi-Hao (Northeast Normal University)

Session Classification: Parallel Session II (1): TeV and BSM Physics

Track Classification: TeV 物理和超出标准模型新物理