

“*THE MUON PUZZLE’S*”

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Abstract:

The unexpected detection of the muon could be considered the first puzzle that this elementary particle put to the development of the connected physics. To this conundrum follows a series of new puzzles that will be briefly analyzed. Then it is discussed the present muon puzzle related to the number of muons that are experimentally determined in cosmic rays that is much larger than the number predicted by the hadron interaction models presently used. Finally, a model based upon the strangeness enhancement at high energies called “piKswap” is presented because it can reconcile theory and experiment. The model has precise predictions to be confronted with near future experiments related with the measurements of neutrino fluxes.

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