

Democratic Neutrinos and Particle Compositeness

Dr. Dmitry Zhuridov
Wayne State University

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Room 415 Nieuwland Science Hall

I will introduce the Democratic Neutrino Theory, which has only one free parameter in contrast to 7 (9) free parameters in the conventional model of light Dirac (Majorana) neutrino masses and mixing. Taking into account the incoherence and matter effects, this new theory agrees with the atmospheric and solar neutrino data, and sets the absolute scale of the neutrino masses at 0.03 eV. I will discuss the predictions of this theory, and the fundamental basis on the level of particle compositeness, which may explain the origin of the neutrino “democracy”.