Fundamentals Of Cosmic Particle Physics

This current updated and expanded text reflects the large number of scientific advances, both theoretically and experimentally, within the discipline of cosmoparticle physics in the last 10 years. Some of the topics that have been added, updated include but are not limited to; HND or CMD+HND scenarios being implemented into sterile neutrino scenarios, the ramifications of extending the forms of dark matter with respect to our view of neutrinos, the origin of baryon matter and the need for non-baryonic matter in current theories, problems the existence of dark matters raises with respect to cosmoparticle physics and the relationship with (meta) stable (super) weakly interacting particles predicted by the extension of the standard model, restrictions on baryon and lepton photons, as well as problems associated with cosmological expansion just to name a few. These and many other topics are readdressed in light of recent both experimental and theoretical developments. Other areas of that will be of interest to the reader include the puzzles presented by direct and indirect effects of dark matter (e.g, results of experiments such as DAMA/NaI, DAMA/LIBRA and PAMELA) may lead to nontrivial new solutions for the problem of its nature, like the existence of new stable families of quarks and leptons and composite dark matter scenario. The present work will be of interest to any researcher interested in this fascinating field dealing with fundamental interactions of the micro- and macroworld. EAN/ISBN : 9781907343728 Publisher(s): Springer, Berlin, Cambridge International Science Publishing Format: ePub/PDF Author(s): Khlopov, Maxim

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