

MILLER ENDOWED LECTURE

NEUTRINOS: WHAT WE HAVE LEARNED AND WHAT WE HAVE LEFT TO LEARN



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Of the fundamental elementary particles, neutrinos are the least understood. And yet they are probably the most likely to give us a window into physics at energies much higher than we can ever hope to achieve with accelerators. Neutrino oscillations, the uncanny property of neutrinos changing from one form to another with time, probably offers the best prospects for investigating their properties. I will give a general review of what we learned over the past few decades about these oscillations and review the results from the current experiments and their prospects for the future.