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neutrinos such as what they are, how to describe them, how they behave in nature, and the roles of neutrinos play in shaping our Universe.

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geometrical
description shows
that the neutrino
oscillation is
analogous to a
classical magnetic
moment
precessing in an
external magnetic
field. By far, the
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experiment has
been the

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Homestake solar
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experiment,
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The discovery of
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oscillations opened
a new era in
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an era of
investigation of
neutrino masses,

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mixing, magnetic moments and other neutrino properties. After the establishment of the Standard Model of the electroweak interaction at the end of the seventies, the discovery of neutrino masses was the most important

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discovery in
particle physics.

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heaviest neutrino
mass might be of
order of $1 \sim 10$ eV. A
neutrino or
neutrinos of this
mass range can
explain the small

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scale region of the power spectrum in the form of hot dark matter.

Currently, however, the most promising way to probe the neutrino mass is considered to be the neutrino oscillation experiments. The source can be

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range from 30 to
600 GeV with a
mean of 140 GeV,
and numu flight
lengths vary from

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0.9 to 1.4 km. The result excludes oscillations in the region with $2\alpha > 1.8 \times 10^{-3}$ for large ...

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active researchers
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Neutrino physics
has become one of
the most active
areas in particle
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after the discovery that neutrinos have mass and mix. This is the only palpable evidence we have that the Standard Model of particle physics is incomplete.

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This chapter discusses the physics of solar neutrinos with detailed treatment of the following: thermonuclear energy production, standard solar models, model-independent constraints on solar neutrino fluxes, Homestake

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experiments
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