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The book is the most up-to-date, comprehensive and self-contained treatment of key issues in neutrino physics. It discusses all the topics vital to the understanding of the nature of 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.

Fundamentals of Neutrino Physics and Astrophysics: Giunti ...
phenomenon. The geometrical description shows that the neutrino oscillation is analogous to a classical magnetic moment precessing in an external magnetic field. By far, the longest running neutrino experiment has been the Homestake solar neutrino experiment, started in the late 1960s by Ray Davis and collaborators after

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Fundamentals of Neutrino Physics and Astrophysics. Carlo Giunti, Chung W. Kim. Apr 4, 2007. 726 pages. ... Neutrinoless double beta decay and direct searches for neutrino mass. Craig Aalseth (PNL, Richland), Henning Back (Virginia Tech.), Loretta J. Dauwe ... M., Gauge Theories and Neutrino Physics*, Amsterdam 1978, 5-145 • DOI:

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This book deals with neutrino physics and astrophysics — a field in which some of the most exciting recent developments in particle physics, astrophysics, and cosmology took place. The book discusses all the topics vital to the understanding of the nature of neutrinos such as what they are, how to describe them, how they behave in nature, and the roles that neutrinos play in shaping our universe.

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The discovery of neutrino oscillations opened a new era in neutrino physics: an era of investigation of neutrino masses, 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 discovery in particle physics.

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

Neutrino Physics: Fundamentals of Neutrino Oscillations

Fundamentals of Neutrino Physics and Astrophysics - C. Giunti, C. W. Kim
Massive neutrinos in physics and astrophysics - R.N. Mohapatra, P.B. Pal
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Advanced Topics in Particle Physics, Physics, WCAS, 2021 ...

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 experiment, Gallium experiments (GALLEX/GNO and SAGE), water Cherenkov detectors (Kamiokande, Super-Kamiokande, and SNO), vacuum oscillations, resonant flavour transitions in the ...

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