

Solar Neutrino Detection

The neutrinos coming from the sun are all electron type neutrinos (ν_e):

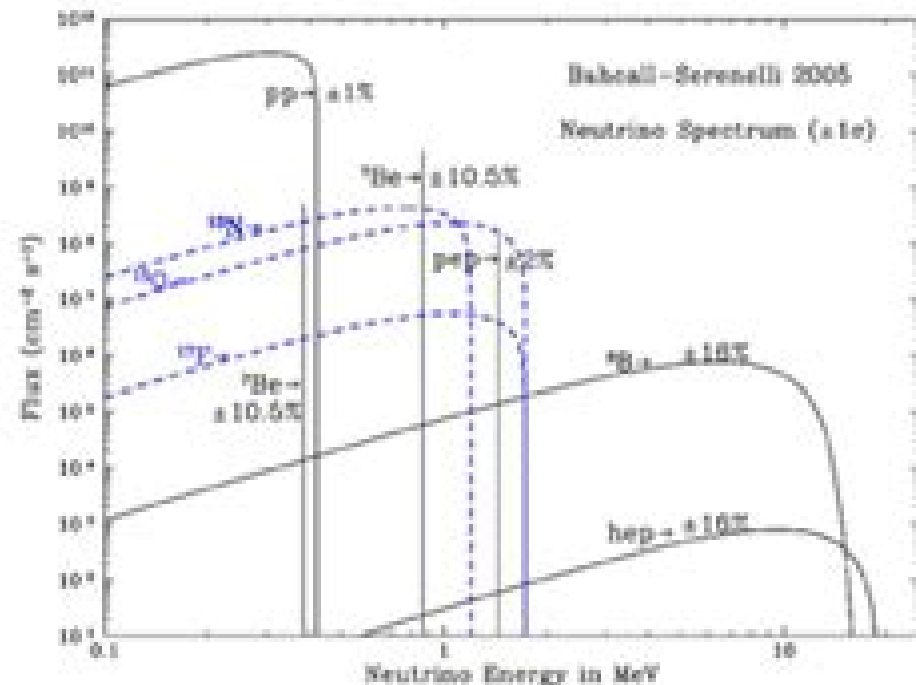
They come in many different energies (from 0.1 - 16 MeV).

We can detect them here on Earth with:

LARGE (due to low neutrino interaction rate)

UNDERGROUND (to reduce cosmic ray background (mostly μ^{\pm}))

DETECTORS



Low Energy Solar Neutrino Detection

Raymond Davis, Jr.



Low Energy Solar Neutrino Detection:

Low Energy Solar Neutrino Detection, Proceedings Of The 2nd International Workshop Shigetaka Moriyama, Masayuki Nakahata, Yoichiro Suzuki, 2002-01-14 This proceedings volume presents discussions on the technical aspect of the detection of low energy solar neutrinos Most of the problems related to the experiments aiming to measure low energy solar neutrinos are dealt with The 2nd International Workshop on Low Energy Solar Neutrino Detection Shigetaka Moriyama, Yoichiro Suzuki, Masayuki Nakahata, 2001 This proceedings volume presents discussions on the technical aspect of the detection of low energy solar neutrinos Most of the problems related to the experiments aiming to measure low energy solar neutrinos are dealt with Low Temperature Detectors for Neutrinos and Dark Matter II Luis Gonzalez-Mestres, Denis Perret-Gallix, 1988 Identification Of Dark Matter, The - Proceedings Of The Fourth International Workshop Vitaly Kudryavtsev, Neil J C Spooner, 2003-05-07 This book contains written versions of the presentations made at the 4th International Workshop on the Identification of Dark Matter IDM 2002 held in York UK in September 2002 The objective of this workshop series is to assess the status of work attempting to identify what constitutes dark matter in particular to consider the techniques being used how successful they are and what new techniques are likely to improve prospects for identifying likely dark matter candidates in the future At IDM 2002 special emphasis was placed on recent results obtained in searches for baryonic and non baryonic dark matter The proceedings include reviews of major topics on dark matter as well as short contributed talks **Technique And Application Of Xenon Detectors, Proceedings Of The International Workshop** Yusuke Koshio, Shigetaka Moriyama, Masayuki Nakahata, Yoichiro Suzuki, 2003-01-14 Contents The Basic Properties of Liquid Xenon as Related to Its Application in Radiation Detectors W F Schmidt Non Proportionality of the Scintillation Yield in Liquid Xenon and Its Effect on the Energy Resolution for Gamma Rays T Doke Development of Liquid Xenon Detectors for Medical Imaging V Chepel The DAMA Pure Liquid Xenon Experiment R Bernabei DRIFT A Dark Matter Detector with Directional Sensitivity B Morgan Studies of Barium Ion Mobility in Liquid Xenon M Miyajima XENON A 1 Tonne Liquid Xenon Experiment for a Sensitive Dark Matter Search E Aprile Progress on the Enriched Xenon Observatory Double Beta Decay Experiment S Waldman and other papers Readership Researchers in high energy physics Keywords Low Energy Solar Neutrinos Dark Matter Double Beta Decay Liquid Xenon Gamma Ray Astronomy Radiation Detectors **Mosaic**, 1991 100 Years Of Subatomic Physics Ernest M Henley, Stephen D Ellis, 2013-06-28 By year 1911 radioactivity had been discovered for over a decade but its origin remained a mystery Rutherford s discovery of the nucleus and the subsequent discovery of the neutron by Chadwick started the field of subatomic physics a quest for understanding the fundamental constituents of matter This book reviews the important achievements in subatomic physics in the past century The chapters are divided into two parts nuclear physics and particle physics Written by renowned authors who have made major developments in the field this book provides the academics and researchers an essential overview of the present

state of knowledge in nuclear and particle physics Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2020-03-03 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition is an authoritative reference on the principles practical techniques and procedures for the accurate measurement of radioactivity everything from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards It includes sample preparation techniques for all types of matrices found in the environment including soil water air plant matter and animal tissue and surface swipes Users will find a detailed discussion of our current understanding of the atomic nucleus nuclear stability and decay nuclear radiation and the interaction of radiation with matter relating to the best methods for radionuclide detection and measurement Spans two volumes Radiation Physics and Detectors and Radioanalytical Applications Includes a much expanded treatment of calculations required in the measurement of radionuclide decay energy of decay nuclear reactions radiation attenuation nuclear recoil cosmic radiation and synchrotron radiation Includes the latest advances in liquid and solid scintillation analysis alpha and gamma spectrometry mass spectrometric analysis gas ionization and nuclear track analysis and neutron detection and measurement Covers high sample throughput microplate techniques and multi detector assay methods **Astroparticle Physics - Proceedings Of The International School** Dimitri V Nanopoulos, 1991-11-15 The interface between particle physics and cosmology known as astroparticle physics can play a key role in our understanding of the universe This international school cosponsored by the Houston Advanced Research Center HARC and the Superconducting Super Collider Laboratory SSC was proposed as an effort to coordinate the explosion in knowledge and attract researchers to this fascinating discipline **Particle Physics: Perspectives And Opportunities - Report Of The Dpf Committee On Long-term Planning** Robert N Cahn, Roberto Peccei, Michael E Zeller, Jonathon A Bagger, David G Cassel, Paul D Grannis, Frank J Sciulli, 1995-09-20 This book is the result of a broad based and in depth study of high energy physics commissioned by the Executive Committee of the Division of Particles and Fields of the American Physical Society This year long study was initiated in the early 1994 in the wake of the cancellation of the SSC and is meant to complement the report of the Drell HEPAP subpanel charged with providing a vision for the future of the field The DPF study of high energy physics was organized on the basis of the working groups each led by a number of co conveners chosen among established leaders in the various subspecialties in the field These conveners in turn organized their working groups by inviting other active workers in the discipline to participate and gathered further input from the community by holding a variety of specialized meetings and workshops This book contains the final reports of the 11 working groups assembled for the study along with an extended overview and executive summary by the editors *Solar Neutrinos* Raymond Davis, Jr., 2018-05-11 A variety of evolutionary sequences of models for the solar interior has been

computed corresponding to variations in input data to obtain some idea of the uncertainties involved in predicting a solar neutrino flux. It is concluded that the neutrino flux can be estimated to within a factor of 2, the primary uncertainty being the initial homogeneous solar composition. Detailed results are given. With a preferred value of the heavy element to hydrogen ratio $Z/X = 0.028$, the helium content necessary to fit a model to the observed solar luminosity is found to be $Y = 0.27$.

Neutrino Physics and Astrophysics Società Italiana Di Fisica, 2012-12-04 This book contains chapters based on 9 of the lectures delivered at the Enrico Fermi School of Physics Neutrino Physics and Astrophysics held from 25 of July to 5 August 2011. The event was organized by the Italian Physical Society SIF jointly with the International School of Astroparticle Physics ISAPP, a network whose aim is to build up an astroparticle community of both astrophysicists and particle physicists. Included are chapters on Neutrino oscillation physics B. Kayser, Double beta decay E. Fiorini, Light neutrinos in cosmology S. Pastor, Neutrinos and the stars G. Raffelt, High energy neutrinos and cosmic rays G. Sigl, Methods and problems in low energy neutrino experiments G. Ranucci, Methods and problems in neutrino observatories M. Ribordy, New technologies in neutrino physics L. Oberauer and Perspectives of underground physics A. Bettini. These are followed by a section on the results presented in the form of posters by the Ph.D. students attending the school. The book will be of interest not only to participants of the school but also to other Ph.D. students and young physicists.

Beyond the Desert 2002 H. V. Klapdor-Kleingrothaus, 2003-11-01 Containing the Proceedings of the Third International Conference on Physics Beyond the Standard Model, this book reports the latest experimental and theoretical results and ideas in this exciting field at the interface between particle physics, astrophysics and nuclear physics. Taken as a whole, this book presents an overview of the current status of the field and a valuable analysis of future trends in theory and experimental approaches across particle astrophysics.

Neutrinos Arnold S. Lavro, 2002 Neutrinos are one of the most abundant particles in the universe. Because they have very little interaction with matter, however, they are incredibly difficult to detect. Neutrinos are similar to the more familiar electron, with one crucial difference: neutrinos do not carry electric charge. Because neutrinos are electrically neutral, they are not affected by the electromagnetic forces which act on electrons. Three types of neutrinos are known. Each type or flavour of neutrino is related to a charged particle which gives the corresponding neutrino its name. Hence the electron neutrino is associated with the electron and two other neutrinos are associated with heavier versions of the electron called the muon and the tau. The book presents citations from the literature for the last three years from the journal literature and the existent book literature. Access is provided by subject, author and title indexes.

Neutrino Astrophysics John N. Bahcall, 1989-07-28 This authoritative text provides a lively, thought-provoking and informative summary of neutrino astrophysics. Neutrino astronomy is being revolutionized by the availability of new observational facilities. Theoretical work in astrophysics and in particle physics is increasing rapidly. The subject of solar neutrinos has many seemingly independent aspects both in its theoretical basis involving nuclear, atomic and particle physics, geochemistry and astronomy. For many

physicists solar neutrinos constitute the low energy frontier of high energy physics Results from all these disciplines are combined here providing a timely and unified discussion of the field Each chapter begins with a succinct overview of material to be presented and ends with an annotated bibliography For advanced undergraduate students but will be essential reading for all researchers interested in the physics of neutrinos and what they reveal about the nature of the Universe

Nucleosynthesis and Its Implications on Nuclear and Particle Physics J. Audouze, Nicole Mathieu, 2012-12-06
Proceedings of the NATO Advanced Research Workshop Fifth Moriond Astrophysics Meeting Les Arcs France March 17 23 1985

Neutrinos and Beyond National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Neutrino Facilities Assessment Committee, 2003-06-13 The President's FY 2003 Budget Request for the National Science Foundation NSF under the Major Research Equipment and Facilities Construction Account called for a National Research Council NRC review of the scientific merits of IceCube and other proposed U S neutrino projects in the context of current and proposed capabilities throughout the world The NRC committee the Neutrino Facilities Assessment Committee NFAC was charged with providing scientific assessments of two possible future science initiatives 1 IceCube a very large volume detector of high energy neutrinos proposed for the South Pole and 2 a possible deep underground science facility to be developed in the United States to pursue a broad range of fundamental questions in physics and astronomy Fourteen persons were appointed to the committee and the first meeting was held in June 2002 with delivery of the final report expected within 6 months The committee's assessment was to be performed in the context of current and planned neutrino capabilities throughout the world Specifically the study was to address the unique capabilities of each class of new experiment and any possible redundancy between the two types of facility

Particle Physics At The Year Of Light - Proceedings Of The Seventeenth Lomonosov Conference On Elementary Particle Physics Alexander I Studenikin, 2017-04-17
The volume of these proceedings is devoted to a wide variety of items both in theory and experiment of particle physics such as electroweak theory fundamental symmetries tests of the standard model and beyond neutrino and astroparticle physics hadron physics gravitation and cosmology physics at the present and future accelerator

Solar Neutrinos - Proceedings Of The 5th International Solar Neutrino Conference Mikko Meyer, Kai Zuber, 2019-04-26 In 2018 solar physics and neutrino research celebrated various historical highlight events Among them were 80 years of the paper by Hans Bethe discussing solar fusion cycles as energy source of stars the first results from the Homestake chlorine experiment celebrating 50 years as well as the discovery of neutrino oscillations 20 years ago by Super Kamiokande Since the last International Solar Neutrino Conference in 1997 solar neutrino detection was recognized by two Nobel Prizes given to Raymond Davis Jr 2002 and Arthur McDonald 2015 The present proceedings volume is based on the given talks and provides a comprehensive and detailed overview of recent developments and discoveries in the field of solar neutrino physics Articles were written by renowned experts of their field and cover a wide range in experiments and theory from current and future solar neutrino

measurements elemental abundances nuclear astrophysics helioseismology impact on general neutrino physics and more
Further contributions focus on experiments like Homestake SAGE and GALLEX which are widely known as historic
milestones in the field of solar neutrino physics Fifth Force Neutrino Physics Orrin Fackler, J. Thanh Van Tran, 1988

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