

Proceedings

# Low Temperature Detectors for Neutrinos and Dark Matter

Edited by

H. Poth, H. Schmidt, and L. Stodolny



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# Low Temperature Detectors For Neutrinos And Dark Matter II

**G. Chardin**



## **Low Temperature Detectors For Neutrinos And Dark Matter II:**

**Low Temperature Detectors for Neutrinos and Dark Matter III** L. Brogiato, D. V. Camin, Ettore Fiorini, 1990 **Low Temperature Detectors for Neutrinos and Dark Matter II** Luis Gonzalez-Mestres, Denis Perret-Gallix, 1988 *Low temperature detectors for neutrinos and dark matter ; 2*, 1988 **Low Temperature Detectors for Neutrinos and Dark Matter IV** Norman E. Booth, Graeme L. Salmon, 1992 *Low Temperature Detectors for Neutrinos and Dark Matter* Klaus Pretzl, Norbert Schmitz, Leo Stodolsky, 2012-12-06 For the last few years astrophysicists and elementary particle physicists have been working jointly on the following fascinating phenomena 1 The solar neutrino puzzle and the question What happens to the neutrinos on their way from the sun to the earth 2 The growing evidence that our universe is filled with about 10 times more matter than is visible and the question What is dark matter made of 3 The supernovae explosions and the question What do neutrinos tell us about such explosions and vice versa The experimental investigation of these phenomena is difficult and involves unconventional techniques These are presently under development and bring together such seemingly disparate disciplines as astrophysics and elementary particle physics on the one hand and superconductivity and solid state physics on the other This book contains the proceedings of a workshop held in March 1987 at which the above subjects and their experimental investigation were discussed The proposed experimental methods are very new They involve frontier developments in low temperature and solid state physics The book should be useful to researchers and students who actively work on these subjects or plan to enter the field It also offers the non expert reader with some physics background a good survey of the activities in this field *The Art of Cryogenics* Guglielmo Ventura, Lara Risegari, 2010-07-07 Cryogenics is the study of low temperature interactions temperatures well below those existing in the natural universe The book covers a large spectrum of experimental cases including basic vacuum techniques indispensable in cryogenics Guidance in solving experimental problems and numerous numerical examples are given as are examples of the applications of cryogenics in such areas as underground detectors and space applications Updated tables of low temperature data on materials are also presented and the book is supplemented with a rich bibliography Researchers graduate and above in the fields of physics engineering and chemistry with an interest in the technology and applications of low temperature measurements will find this book invaluable Experiments described in technical detail Description of newest cryogenic apparatus Applications in multidisciplinary areas Data on cryogenic properties of new materials Current reference review **Proceedings of the Symposium on Low Temperature Electronics and High Temperature Superconductivity** Cor L. Claeys, 1995

*Calorimetry In High Energy Physics: Proceedings Of The 8th International Conference* Gaspar Barreira, Agostinho Gomes, Amelia Maio, Bernardo Tome, Maria J Varanda, 2000-05-31 The International Conference on Calorimetry in High Energy Physics has become the major forum for presenting the latest developments of calorimetry techniques The eighth conference was attended by about 130 physicists from 20 countries and covered all aspects of calorimetric particle detection

and measurements with emphasis on high energy physics experiments

### **Superconducting and Low-Temperature**

**Particle Detectors** G. Waysand, G. Chardin, 2012-12-02 As demonstrated by the contributions in this volume the domain of superconducting and low temperature devices is in a rapidly expanding phase Interactions between materials sciences low temperature physics astrophysics nuclear and particle physics have provided the incentive for new experiments which could ultimately record such rare interactions as double beta decay neutrino scattering or collisions of the elusive dark matter halo particles The theoretical and experimental improvements achieved during the last year have been impressive Detection of 60 keV resolution with a non zero spin material as a target seems therefore realizable in the near future Similarly impressive achievements on ballistic phonons detection and superheated superconducting detectors have been presented together with reliable techniques for developing ultra low noise electronics required by these ambitious experiments Apart from the contributions presented during the symposium the two original papers by Niinikoski proposing the use of bolometers as particle detectors have been included in this volume These papers despite their current interest have never been published before The comprehensive style of the papers will appeal to specialists and non specialists alike in particular solid state physicists will find the volume of considerable interest as the field of materials research continues to benefit from the type of work presented here

New and Exotic Phenomena '90 Orrin Fackler, J. Thanh Van Tran, 1990

*Weak Interactions And Neutrinos: Proceedigns Of The 12th Symposium On Theoretical Physics* Jihn E Kim, Sun Kee Kim, 1994-08-31 The major topics in this volume are electroweak physics including LEP physics and radiative corrections CP violation and lepton number nonconservation and neutrino physics and astroparticle physics The latest progress in both the theoretical and the experimental aspects of the topics is discussed

Weak And Electromagnetic Interactions In Nuclei - Proceedings Of 3rd International Symposium (Wein-9) T S D Vylov, 1993-03-30 This volume presents the experimental and theoretical methods of studying soft interaction physics in high energy collisions The topics include dynamical and Bose Einstein correlations multiplicity fluctuation soft photons disoriented chiral condensate self similarity and self affine behaviors wavelet analysis intermittency chaos and phase transition

**Tests of Fundamental Laws in Physics** Orrin Fackler, J. Thanh Van Tran, 1989

**International Conference on High Energy Physics/ International Union of Pure and Applied Physics, 24. 1988, München** Rainer Kotthaus, Johann H. Kühn, 2013-11-11 This was the most recent in a highly esteemed series of biannual Rochester conferences 20 invited reviews and about 200 invited contributions on all aspects of current research in high energy and particle physics give a complete and lively account of achievements activities and goals in the field Topics discussed include results from proton antiproton and electron positron colliders spectroscopy and decays of heavy flavors weak mixing and CP violation non accelerator particle physics heavy ion collisions future accelerators detector developments the standard electroweak model and beyond the status of perturbative QCD superstrings and unification new developments in field theory non perturbative methods and cosmology and astrophysics

TAUP 91 A. Morales, J. Morales, J. A.

Villar, 2016-06-03 TAUP 91 covers the proceedings of the Second International Workshop on Theoretical and Phenomenological Aspects of Underground Physics held in Toledo Spain on September 9-13 1991. The book focuses on the processes, methodologies, reactions and transformations involved in underground physics. The selection first offers information on the fundamental issues in particle astrophysics and an overview of the problems related to general cosmology. Topics include connections between particle physics, astrophysics and cosmology; stellar physics and particles; astrophysical ages; cosmic background radiation and abundances of light elements. The text also takes a look at big bang nucleosynthesis constraints on new physics and microwave background radiation. The publication ponders on very wide band interferometric gravitational wave antenna and search for stellar gravitational collapse by macro. The text also examines high energy cosmic neutrinos of acceleration and non acceleration origin; tests of general relativity and Newtonian gravity at large distances and the dark matter problem and nuclear form factors for the scattering of neutralinos. The selection is a valuable reference for readers interested in underground physics.

*Particle Astrophysics, Atomic Physics and Gravitation* J. Thanh Van Tran, Gérard Fontaine, Edward Hinds, 1994. Astronomy, Cosmology and Fundamental Physics Michele Caffo, Roberto Fanti, Giorgio Giacomelli, Alvio Renzini, 2012-12-06. In the development of Fundamental Physics on one side and of Astronomy Cosmology on the other side, periods of parallel, relatively independent progress seem to alternate with others of intense interaction and mutual influence. To this latter case belong the very beginnings of Modern Physics with Galileo and Newton. There is now a widespread feeling that another of such flourishing periods may have started some ten years ago with the advent of Unified Theories and the introduction of Inflationary Cosmologies. The interaction between the two disciplines has become tighter ever since, spurring studies of e.g. astronomical and particle Dark Matter candidates, Superstrings and Cosmic Strings, phase transitions in the Early Universe etc etc. Then the recent birth of Neutrino Astronomy has added further flavor to this splendid conjunction. It was indeed with the clear perception of this trend that six years ago CERN and ESO decided to jointly organize a series of symposia focusing on the interactions between Astronomy Cosmology and Fundamental Physics to be held about every two years. The aim of these meetings is to bring together astronomers, cosmologists and particle physicists to exchange information, to discuss scientific issues of common interest and to take note of the latest developments in each discipline that are relevant to the other. The First ESO CERN Symposium was held at CERN Geneva on November 21-25 1983. Then for its Second edition the ESO CERN Symposium moved to Garching bei München where ESO headquarters are located and took place on March 17-21 1986. Progress in atomic physics, neutrinos and gravitation G. Chardin, 1992.

**Perspectives in Neutrinos, Atomic Physics and Gravitation** J. Thanh Van Tran, 1993. TAUP 89 Alessandro Bottino, 1989.

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