

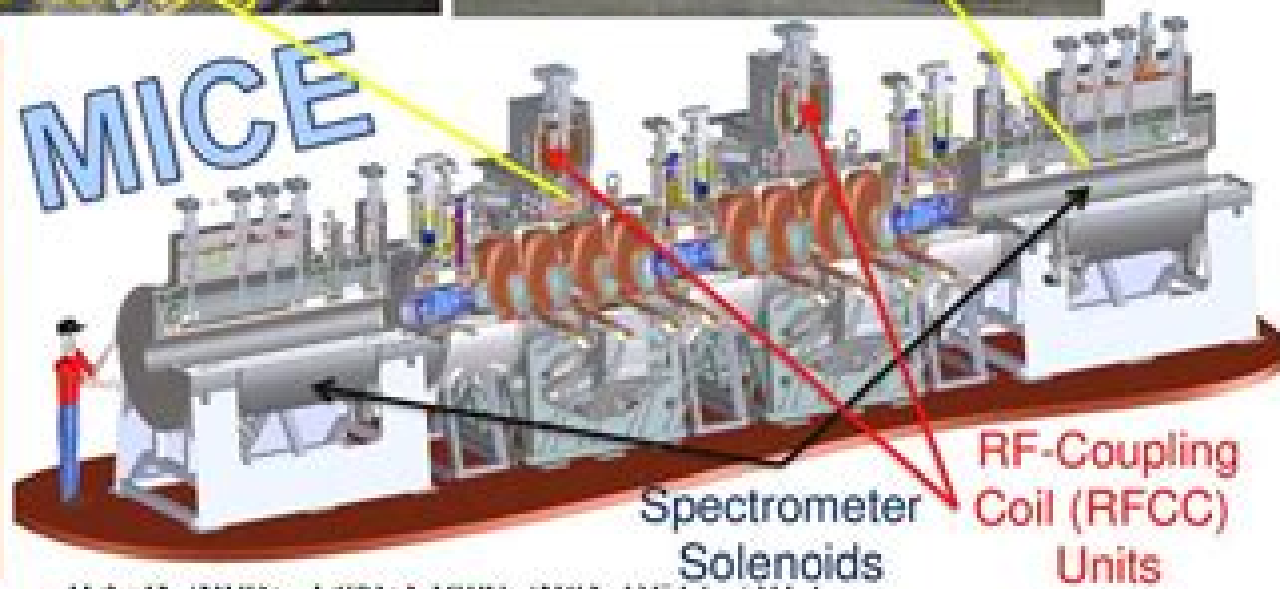
Muon Ionization Cooling Experiment (MICE)

First Coupling Coil Cold Mass
Being Readied for Training

Fermilab Solenoid Test Facility

First Spectrometer Solenoid
Now Commissioned!

MICE



Spectrometer
Solenoids

RF-Coupling
Coil (RFCC)
Units

U.S. DEPARTMENT OF ENERGY, BROOKHAVEN NATIONAL LABORATORY, Upton, NY 11973-5000

Initial beam emittance
intrinsically large

Muon Cooling $\Leftrightarrow$ Ionization
Cooling

- dE/dx energy loss
in materials
- RF to replace p_{long}

Low Energy Muon Ionization Cooling Channel Fermilab

Franz von Feilitzsch, Norbert Schmitz



Low Energy Muon Ionization Cooling Channel Fermilab:

Proceedings of the Workshop on Applications of High Intensity Proton Accelerators, Fermilab, Chicago, 19-21 October 2009 Shekhar Mishra, 2010 This volume captures the contents of the talks given at the Workshop on Applications of High Intensity Proton Accelerators held at Fermilab Oct 19 21 2009 This workshop brought together experts from a variety of disciplines to explore new and profound ways proton accelerators can be used in the future The workshop explored uses of such a proton source for producing intense muon kaon and neutrino beams as well as using the intense protons for new forms of nuclear reactors that go by the name Accelerator Driven Sub critical systems that promise to increase our available nuclear fuel supply by orders of magnitude while at the same time solving the nuclear waste problem Intense proton beams can also be used to produce short lived nuclear isotopes that are important in the medical industry **The DOE FY 99 Budget Authorization Request ; H.R. 1806, to Provide for the Consolidation of the DOE Offices of Fossil Energy, Renewable Energy, and Energy Efficiency ; S. 965, to Amend Title II of the Hydrogen Future Act of 1996** United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment, 1998 *Challenges and Goals for Accelerators in the XXI Century* Oliver Brüning, Stephen Myers, 2015 The past 100 years of accelerator based research have led the field from first insights into the structure of atoms to the development and confirmation of the Standard Model of physics Accelerators have been a key tool in developing our understanding of the elementary particles and the forces that govern their interactions This book describes the past 100 years of accelerator development with a special focus on the technological advancements in the field the connection of the various accelerator projects to key developments and discoveries in the Standard Model how accelerator technologies open the door to other applications in medicine and industry and finally presents an outlook of future accelerator projects for the coming decades Provided by publisher **Applications Of High Intensity Proton Accelerators - Proceedings Of The Workshop** Rajendran Raja, Shekhar Mishra, 2010-06-28 This volume captures the contents of the talks given at the Workshop on Applications of High Intensity Proton Accelerators held at Fermilab Oct 19 21 2009 This workshop brought together experts from a variety of disciplines to explore new and profound ways proton accelerators can be used in the future The workshop explored uses of such a proton source for producing intense muon kaon and neutrino beams as well as using the intense protons for new forms of nuclear reactors that go by the name Accelerator Driven Sub critical systems that promise to increase our available nuclear fuel supply by orders of magnitude while at the same time solving the nuclear waste problem Intense proton beams can also be used to produce short lived nuclear isotopes that are important in the medical industry **Nuclear Physics**, 2003 Neutrino 2002 Franz von Feilitzsch, Norbert Schmitz, 2002 **CERN Courier** European Organization for Nuclear Research, 1997 This journal is devoted to the latest research on physics publishing articles on everything from elementary particle behavior to black holes and the history of the universe **Physics Beyond the Standard Models of Particles, Cosmology and Astrophysics**

Hans Volker Klapdor-Kleingrothaus, I. V. Krivosheina, R. Viollier, 2011 This book contains the proceedings of the Fifth International Conference on Physics Beyond the Standard Models of Particle Physics Cosmology and Astrophysics It presents a brilliant overview of the status and future potential and trends in experimental and theoretical particle physics cosmology and astrophysics in the complimentary sectors of accelerator non accelerator and space physics Neutrino, 2001

Handbook Of Accelerator Physics And Engineering (3rd Printing) Maury Tigner, 1999-03-26 Edited by internationally recognized authorities in the field this expanded edition of the bestselling Handbook first published in 1999 is aimed at the design and operation of modern accelerators including Linacs Synchrotrons and Storage Rings It is intended as a vade mecum for professional engineers and physicists engaged in these subjects With a collection of 2200 equations 345 illustrations and 185 tables here one will find in addition to the common formulae of previous compilations hard to find specialized formulae recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types Chapters on beam dynamics and electromagnetic and nuclear interactions deals with linear and nonlinear single particle and collective effects including spin motion beam environment beam beam and intrabeam interactions The impedance concept and calculations are dealt with at length as are the instabilities associated with the various interactions mentioned A chapter on operational considerations deals with orbit error assessment and correction Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration Hardware systems for particle sources feedback systems confinement and acceleration both normal conducting and superconducting receive detailed treatment in a subsystems chapter beam measurement techniques and apparatus being treated therein as well The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices A detailed index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found Proceedings Of The 28th International Conference On High Energy Physics (In 2 Volumes)

Zygmunt Ajduk, Andrzej Kajetan Wróblewski, 1997-04-11 The 28th conference from the Rochester series was the major high energy physics conference in 1996 Volume one contains short reports on new theoretical and experimental results Volume two consists of the review talks presented in the plenary sessions Neutrino 2000 Jimmy Law, Robin W. Ollerhead, John J. Simpson, 2001 *2003 Graduate Programs in Physics, Astronomy, and Related Fields* American Institute of Physics, 2002 This comprehensive compendium provides information on nearly every U S doctoral program in physics and astronomy plus data on most major master's programs in these fields Information on many major Canadian programs is also included In addition the Graduate Programs directory lists a substantial number of related field departments including materials science electrical and nuclear engineering meteorology medical and chemical physics geophysics and oceanography This twenty

seventh annual edition contains information valuable to students planning graduate study and faculty advisors including each program's research expenditures and sources of support. A number of helpful appendices make navigating the directory a simple task. **Proceedings of the 1999 Particle Accelerator Conference**, 1999 **2004 Graduate Programs in**

Physics, Astronomy, and Related Fields American Institute of Physics, 2003-11-06 This comprehensive compendium provides information on nearly every U.S. doctoral program in physics and astronomy plus data on most major master's programs in these fields. Information on many major Canadian programs is also included. In addition, the Graduate Programs directory lists a substantial number of related field departments including materials science, electrical and nuclear engineering, meteorology, medical and chemical physics, geophysics, and oceanography. This twenty-eighth annual edition contains information valuable to students planning graduate study and faculty advisors including each program's research expenditures and sources of support. A number of helpful appendices make navigating the directory a simple task.

Lepton-Photon 2001, 2002 *Handbook of Accelerator Physics and Engineering* Alex Chao, 1999 Edited by internationally recognized authorities in the field, this handbook focuses on Linacs, Synchrotrons, and Storage Rings and is intended as a *vade mecum* for professional engineers and physicists engaged in these subjects. Here one will find, in addition to the common formulae of previous compilations, hard-to-find specialized formulae, recipes, and material data pooled from the lifetime experiences of many of the world's most able practitioners of the art and science of accelerator building and operation. **Proceedings of the Meeting of the Division of Particles and Fields of the American Physical Society for the Year 2004 (DPF2004)** American Physical Society. Division of Particles and Fields. Meeting, 2005

The Future of Accelerator Physics: The Tamura Symposium Proceedings Toshiki Tajima, 1996 Annotation: At a time when several new and exciting technical developments are emerging in accelerator physics, yet the discipline is still reeling from the cancellation of the supercollider, 29 papers look at hadron accelerators, electron storage rings, coherent radiation sources, laser acceleration, and advanced concepts. The specific topics include colliding beams in a Möbius accelerator, the correction of emittance modulation by linear coupling, a quasi-periodic undulator, pulse propagation in the laser wakefield accelerator, and cooling particle beams. Reproduced from typescripts. Annotation c by Book News, Inc., Portland, Or. *Neutrino Factories and Superbeams* Adam Para, 2004-10-29 The workshop has reviewed progress towards the future generation of neutrino oscillation experiments. These experiments will use very intense conventional neutrino beams and novel beams derived from muons or radioactive nuclei. These new facilities will provide a broad research front including muon physics and neutrino scattering experiments. The main technical challenges involve construction of very intense proton beams, targeting, effective capture of produced particles, cooling, and subsequent acceleration of the resulting muons.

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