



Principle of polarized ion (proton) sources



Type	prod. of electron polarization	prod. of nuclear polarization	ionization to (fast) H^+ ion beam	location
Atomic Beam Source ABS	slow dissociator + SG-magnet	slow RF- transitions	electr. impact ionizer + pre- accel. + CEX *	Tandem Lab (Munich)
Colliding Beam Source CBS	“	“	direct CEX* by fast Cs atoms + pre-accel.	COSY (FZ Juelich)
Opt. Pumped Pol. Ion Source OPPIS	fast CEX* on opt. pumped Rb vapor	fast Sona trans., i.e. non-adiabatic pass. of $B=0$	fast CEX* on Na vapor	RHIC (BNL, NY)

*) CEX = charge exchange on Alkali vapor

Polarized Proton Ion Sources

**Sandibek B. Nurushev, Mikhail F.
Runtso, Mikhail N. Strikhanov**



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Polarized Proton Ion Sources G. Roy, P. Schmor, 1984 **Polarized Proton Ion Sources (Ann Arbor, 1981)** A. D. Krisch, Ali Maung Thet Lin, 1982 Polarized Proton Ion Sources Roy, Schmor, 1998-04-03 *Workshop Report on Polarized Proton Ion Sources* International Symposium on High Energy Spin Physics (6th : 1984 : Marseille, France), P. W. (Paul Wesley) Schmor, Triumf, 1984 *Polarized Proton Ion Sources*, 1982 Polarized Proton Ion Sources G. Roy, P. Schmor, 1984 Polarized proton ion sources : Ann Arbor, 1981, 1982 Polarized Proton Ion Sources A. D. Kirsch, A. T. M. Lin, Development and Applications of Negative Ion Sources Vadim Dudnikov, 2023-06-22 This book describes the development of sources of negative ions and their application in science and industry It describes the physical foundations and implementation of the key methods of negative ion production and control such as charge exchange thermionic emission plasma volume secondary emission sputtering and surface plasma sources as well as the history of their development Following on from this essential foundational material the book goes on to explore transport of negative ion beams and beam plasma instabilities Now in its second edition the book has been substantially expanded and updated to address the many developments since it was first published most importantly the development and investigation of cesiated surfaces with work function 1 2 1 3 eV in conditions close to discharges in surface plasma sources The book also includes a new chapter on development of conversion targets for high energy neutral beam injectors covering gas targets plasma targets and photon targets for efficient conversion of high energy negative ion beams to neutral beams With exposition accessible at the graduate level and a comprehensive bibliography this book will appeal to all students and researchers whose work concerns ion sources and their applications to accelerators beam physics storage rings cyclotrons and plasma traps PSTP 2007 Ahovi Kponou, Yousef Makdisi, Anatoli Zelenski, 2008-02-25 Upton New York 10 14 September 2007 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1977 **Polarized Proton Ion Sources** G. Roy, P. Schmor, Scientific and Technical Aerospace Reports, 1972 Nuclear Science Abstracts, 1976-06

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 **Fiscal year 1985 Department of Energy authorization** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications, 1984 *Polarized proton ion sources: Aip conference proceedings* G. Roy, P. Schmor, 1984 *Introduction to Polarization Physics* Sandibek B. Nurushev, Mikhail F. Runtso, Mikhail N. Strikhanov, 2012-10-28 This book is devoted to the polarization spin physics of high energy particles and contains three parts

The first part presents the theoretical prefaces of polarization in the particle physics for interpretations predictions and bases for understanding the following two parts The second part of the book presents the description of the essential polarization experiments including the recent ones This part is devoted to the innovative instrumentations gives the parameters of the polarized beams targets polarized gas jets and polarimeters The third part of the book concentrates on the important achievements in polarization physics The book can be used in lectures on nuclear and particle physics and and nuclear instruments and methods As supplementary reading this book is useful for researchers working in particle and nuclear physics

AEC Authorizing Legislation, Fiscal Year 1965 United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Legislation, 1964 **Energy Research Abstracts** ,1992

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