

Curriculum Vitae and Bibliography

Oleksandr P. Dzyubak, PhD

(Alexandr P. Dzyubak - another name spelling)

1. PERSONAL INFORMATION

Place of Birth: Ukraine

Citizenship: Ukraine

2. PRESENT ACADEMIC RANK AND POSITION

Research Associate – Mayo Clinic College of Medicine 11/2008 - present

3. EDUCATION

Kharkov State University, Kharkov, Ukraine 1977 - 1981
BS, Nuclear and Particle Physics

Kharkov State University, Kharkov, Ukraine 1981 - 1983
MS, Nuclear and Particle Physics

Kharkov State University, Kharkov, Ukraine 1990
PhD, in Physics and Mathematics

Elements of Biology, 3 Credits. 2007

Rochester Community and Technical College, Rochester, MN, USA
Fundamentals of Anatomy and Physiology, 4 Credits. 2007

Rochester Community and Technical College, Rochester, MN, USA
Multidetector-Row CT, 37 AMA PRA Category Credits. 2007

Continuing Medical Education Program, Stanford University School
of Medicine, Department of Radiology, San Francisco, CA, USA

Intensive GEANT4 (toolkit for the simulation of the passage of
particles through matter) workshop on high energy/nuclear physics
and medical applications. Jefferson Lab, Newport News, VA, USA 2006

Webinar 11-lecture course on “Research Commercialization: The
Essentials”, the National Council of Entrepreneurial Tech Transfer
Webinar “Small Business Innovation Research (SBIR) and Small
Business Technology Transfer Research (STTR) Grant Programs at
the National Institutes of Health (NIH)”, The National Academy of
Sciences' University-Industry Demonstration Partnership (UIDP),
National Council of Entrepreneurial Tech Transfer (NCET2) & The
North Carolina Small Business and Technology Development
Center June 18, 2009 –
Sept. 3, 2009
February 23, 2010

4. BOARD CERTIFICATION(S)

None, but registered for the American Board of Radiology (ABR) July 2010
Part I Exam: **Radiologic Physics**

5. MEDICAL LICENSURE

None

6. HONORS/AWARDS

Full year stipend award. Kharkov State Univ. Stipend Award Committee, Kharkov, Ukraine	1977 - 1978
Full year stipend award (plus 20% Best Student award). Kharkov State Univ. Stipend Award Committee, Kharkov, Ukraine	1978 - 1979
Best Student Project Competition. "Experimental studies of cancer cell membrane potentials, Kharkov State University, Kharkov, Ukraine	1979
Full year stipend award (plus 50% Best Student award). Kharkov State Univ. Stipend Award Committee, Kharkov, Ukraine	1979 - 1980
Full year stipend award (plus 50% Best Student award). Kharkov State Univ. Stipend Award Committee, Kharkov, Ukraine	1980 - 1981
Full year stipend award (plus 92% Best student award). Kharkov State Univ. Stipend Award Committee, Kharkov, Ukraine	1981 - 1982
Inventor's Certificate of the USSR # 1398550. Dzyubak AP, Karnaukhov IM, Lukhanin AA, and Neffa AYU. Cryogenic installation. Bulletin of the Discovery and Invention USSR. 1987; 28: 272.	1987
Certificate of Senior Scientist. Specialty: Nuclear, Particle, and High Energy Physics. Supreme Certificate Committee of Ukraine, Kiev, Ukraine	2000

7. MILITARY SERVICE

None

8. PREVIOUS PROFESSIONAL POSITIONS AND MAJOR APPOINTMENTS

Teaching Assistant. Kharkov State University, Kharkov, Ukraine	1983 - 1984
Research Scientist. Kharkov State University, Kharkov, Ukraine	1985 - 1987
Visiting Scientist. Yerevan Physics Institute, Yerevan, Armenia	1984 - 1986
Visiting Scientist. Instit. for High Energy Physics, Protvino, Russia	1986 - 1994
Engineer-Researcher. National Science Center (KIPT), Kharkov, Instit. of High Energy Physics & Nuclear Physics, Kharkov, Ukraine	1987 - 1989
Research Scientist. National Science Center (KIPT), Kharkov, Instit. of High Energy Physics & Nuclear Physics, Kharkov, Ukraine	1989 - 1997
Visiting Scientist. Laboratoire National Saturne, Saclay, France	1992 - 1993
Research Scientist. The Academy of Medical Science of Ukraine, Institute of Endocrine Pathology Problems, Kharkov, Ukraine	1995 - 1996
Visiting Research Scientist. Institute of Particle and Nuclear Physics, Prague, Czech Republic	1998 - 1999
Visiting Scientist. Joint Instit. for Nuclear Research, Dubna, Russia	1993 - 2000
Senior Research Scientist. National Science Center (KIPT), Instit. of High Energy Physics & Nuclear Physics, Kharkov, Ukraine	1997 - 2001

Visiting Research Scientist. Fermi National Lab, Batavia, IL, USA	2000 – 2002
Research Associate. University of Rochester, Rochester, NY, USA	2001 - 2002
Research Scientist. Univ. of South Carolina, Columbia, SC, USA	2002 - 2006
Visiting Scientist. Jefferson Nation. Lab, Newport News, VA, USA	2002 – 2008
Research Fellow. Mayo Clinic College of Medicine, Dept. of Radiology, Computed Tomography Clinical Innovation Center (CT CIC), Rochester, MN, USA	2006 – 2007
Research Associate. Mayo Clinic College of Medicine, Physiological Imaging Research Lab (PIRL), Rochester, MN, USA	2007 – present

9. PROFESSIONAL MEMBERSHIPS AND SOCIETIES (Extramural only)

Professional Memberships & Services

American Physical Society (APS) – member	2003 – present
South Carolina Academy of Science (SCAS) – member	2003 – present
Mathematical Association of America (MAA) – member	2004 – present
Sigma Xi, the Scientific Research Society – full member	2005 – present
Institute of Electrical and Electronics Engineers (IEEE) – member	2006 – present
American Association of Physicists in Medicine (AAPM) – full member	2006 – present
Radiological Society of North America (RSNA) – member	2007 – present

User Groups & Collaborations

Users Group at National Science Center (KIPT), Instit. of High Energy Physics & Nuclear Physics, Kharkov, Ukraine – member	1982 – 2002
Users Group at Joint Institute Nuclear Research (Movable Polarized Target Collaboration), Dubna, Russia – member	1993 – 2000
Users Group at Jefferson National Lab, Newport News, VA, USA – member	2002 – 2006
CEBAF Large Acceptance Spectrometer (CLAS) Collaboration, Jefferson National Lab, Newport News, VA, USA – member	2002 – 2006
The Geant4 North American Medical User Organization (G4NAMU), SLAC National Accelerator Laboratory, Menlo Park, CA, USA – member	2006 – present

10. EDUCATIONAL ACTIVITIES

A. Curriculum/Course Development

High Resolution NMR spectroscopy, The Academy of Medical Science of Ukraine, Institute of Endocrine Pathology Problems. Monthly seminar	1995 – 1996
Mathematical modeling experimental data, Ukrainian National Scientific Center of Medicinal Substances, Kharkov, Ukraine, Monthly seminar	1996 – 1999

B. Teaching Activities

<u>Teaching Assistant.</u> Theory of scattering, Dept. of Experimental Nuclear Physics, Kharkov State University, Kharkov, Ukraine	09/1983 – 06/1984
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Adaptive tubular object recognition based on multi-scale shape analysis 02/26/2010
in large images of vascular trees, Biomedical Engineering Seminar
Mayo Clinic, Mann Hall Medical Sciences Bldg., Rochester, MN

C. Mentor

Mentees	Dates mentored	Description of the work	Mentees Current Status
Nikolai Lotochuk	1988-1991	Photon and particle interaction with nuclear polarized targets (Protons and Deuterons)	MS in Nuclear and Particle Physics
Volodymyr Romanov	1993-1995	Use of computer workstations for mathematical modeling	Researcher in private company
Valerii Gavrikov	1995-1997	Use of detectors for Experimental Particle Physics	Researcher in private company
Oleksandr Lukhanin	1997-1999	Cryogenics and high field magnet design and development for polarized targets (Protons and Deuterons)	MS in Nuclear and Particle Physics
Andrii Belyaev	1996-2000	Modern Numerical methods for modeling physical processes	Several co-authored publications for his PhD Dissertation in Nuclear and Particle Physics
Nicolas Recalde,	2002-2003	Superconducting extra-compact magnet coil design for dynamic polarized targets (Protons and Deuterons)	MS in Nuclear and Particle Physics
Irina Stepanova	2003-2004	Modeling particle interaction with matter based on GEANT4 simulation toolkit	Researcher in at institution

D. Education Scholarship

None

E. Honors and Awards for Education

None

F. Academic Career Development

None

11. INSTITUTIONAL/DEPARTMENTAL ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIPS, AND OTHER ACTIVITIES

Board of Student Affairs, College of Physics and Technology, 1978 – 1980
Kharkov State University, Kharkov, Ukraine - Chair of the Board

12. PRESENTATIONS

International

Dzyubak OP, Ritman EL. Hybrid denoising filter pipeline for mixed noise images, NCCAAPM 2009 Spring Meeting, April 24, 2009, Eau Claire, WI, USA 2009

Takahashi N, Hartman RP, Vrtiska TJ, Kawashima A, Primak AN, Dzyubak OP, Mandrekar JN, Fletcher JG, McCollough CH. Dual-energy CT iodine-subtraction “virtual non-contrast” technique for detection of urinary stones in the opacified collecting system: feasibility phantom study, Society of Gastrointestinal Radiologists and Society of Uroradiology, April 15-20 2007, Coconut Point, Naples, FL, USA 2007

Primak A, Dong Y, Dzyubak OP, Jorgensen SM, McCollough CH, Ritman EL. A Technical Solution to Avoid Partial Scan Artifacts in Myocardial Perfusion Imaging using MDCT, 49-th AAPM Annual Meeting, July 22-26, 2007, Minneapolis Convention Center, Minneapolis, MN, USA 2007

Dzyubak OP, Primak AN, Takahashi N, Vrtiska TJ, Hartman RP, Kawashima A, Fletcher JG, Yu L, and McCollough CH, The use of CT dual-energy subtraction imaging to detect kidney stones amid iodinated contrast material, 49-th AAPM Annual Meeting, July 22-26, 2007, Minneapolis Convention Center, Minneapolis, MN, USA 2007

Brown CL, Hartman RP, Dzyubak OP, Takahashi N, Kawashima A, McCollough CH, Primak AN, Bruesewitz MR, Fletcher JG. Dual-Energy CT Iodine Overlay Technique for Characterization of Renal Masses as Cyst or Solid: A Phantom Feasibility Study, RSNA, November 25-30, 2007, Chicago, IL, USA 2007

McDonald E, Fletcher JG, Dzyubak OP, Bruesewitz MR, Siddiki H, McCollough CH. Use of 80 kV Tube Energy in Perfusion CT: When is it OK?, RSNA, November 25-30, 2007, Chicago, IL, USA 2007

- Primak A, Dong Y, Dzyubak OP, Jorgensen SM, McCollough CH, Ritman EL. Methods to reduce or eliminate partial scan artifacts in cardiac CT, RSNA, November 25-30, 2007, Chicago, IL, USA 2007
- Yu L, Primak A, Dzyubak OP, Liu X, McCollough CH. Dual-source dual-energy CT (DECT) combined images can provide improved image quality relative to single-energy CT with no increase in patient dose, RSNA, November 25-30, 2007, Chicago, IL, USA 2007
- Dzyubak O, Djalali C, Tedeschi D. Medical applications of polarization techniques developed for Nuclear and Particle Physics, South Carolina Academy of Science, 77th Annual Meeting, March 15-16, 2005, Rock Hill, SC, USA 2005
- Dzyubak O, Dzyubak S. Low level measurements of radioactive residuals as spin-offs from High Energy and Particle Physics to the Medicine and Nutrition Quality Control Service, South Carolina Academy of Science, 77th Annual Meeting, March 15-16, 2005, Rock Hill, SC, USA 2005
- Dzyubak O, Djalali C, Strauch S and Tedeschi D. Magnet and beam studies for the JLab Hall-B Frozen Spin Polarized Target, XI-th International Workshop on Polarized Sources and Targets, November 14-17, 2005, Tokyo, Japan 2007
- Keith CD, Seely ML, Dzyubak O. Design of a Frozen Spin Target for CLAS, GDH-2004, the Third International Symposium on the Gerasimov-Drell-Hearn Sum Rule and its Extensions, June 2-5. 2004, VA, USA 2004
- Dzyubak O, Djalali C, Recalde N, and Tedeschi D. Design of internal superconducting holding magnet for the JLAB Hall-B frozen spin polarized target, 9th Inter. Workshop on Polarized Solid Targets & Techniques, October 27 - 29, 2003, Physikzentrum of Bad Honnef, Germany 2004
- Dzyubak O. Frozen Polarized Target for JLAB photon experiments, American Physical Society Meetings, April 5-8, 2003, Philadelphia, PA, USA 2003
- Recalde N, Dzyubak O, Keith C, and Seely M. Holding Magnet System for JLAB Hall-B Frozen Polarized Target, American Physical Society Meetings, April 5-8, 2003, Philadelphia, PA, USA 2003
- Belyaev AA, ..., Dzyubak AP, ..., et al.. Millimeter magnetic spectroscopy of paramagnetic complexes Cr(V), MSMW'2001 Symposium, June 4-9. 2001, Kharkov, Ukraine 2001
- Durand G, Dzyubak AP, Benda B, Ball J, Usov Y, and Janout Z. The optimal conditions of the LiH and LiD preparation as a target material, 12th Int. Symp. on High Energy Spin Physics, Vrije Universiteit Amsterdam, 10-14 Sept. 1996, Amsterdam, The Netherlands 1996
- Anischenko NG, ..., Dzyubak AP, ..., et al.. A new movable polarized target at Dubna, 11-th Int. Symp. on High Energy Spin Physics, 15-22 Sept. 1994, Bloomington, IN, USA 1994

- Belyaev AA, ..., Dzyubak AP, ..., et al.. A cryostat for samples irradiations in liquid argon, 9-th Int. Symp. on High Spin Energy Physics, 6-15 Sep, 1990, Bonn, FRG 1990
- Androsof VP, ..., Dzyubak AP, ..., et al.. New polarized target facility at the Kharkov Institute of Physics and Technology, 9-th Int. Symp. on High Spin Energy Physics, 6-15 Sep, 1990, Bonn, FRG 1990
- Belyaev AA, ..., Dzyubak AP, ..., et al.. A Study of polarization in irradiated ammonia, III-Workshop on High Spin Energy Physics, 5-8 Sept., 1989, Protvino, Russia 1990
- Belyaev AA, ..., Dzyubak AP, ..., et al.. A study of spectral characteristics of ammonia irradiated at 90K, III-Workshop on High Spin Energy Physics, 5-8 Sept., 1989, Protvino, Russia 1990
- Belyaev AA, ..., Dzyubak AP, ..., et al.. A study of T-asymmetry of reaction $\gamma N \rightarrow p\pi$ on deuteron polarized target, III-Workshop on High Spin Energy Physics, 5-8 Sept., 1989, Protvino, Russia 1990
- Androsof VP, ..., Dzyubak AP, ..., et al.. Polarization evolution in ND₃, 8-th Int. Symp. on High-Energy Spin Physics, Sept. 12-17, 1988, Minneapolis, MN, USA 1989
- Belyaev AA, ..., Dzyubak AP, ..., et al.. A study of proton polarization in ammonia (NH₃) under irradiation and annealing, 8-th Int. Symp. on High-Energy Spin Physics, Sept. 12-17, 1988, Minneapolis, MN, USA 1989
- Karnaukhov IM, ..., Dzyubak AP, ..., et al.. Dynamical polarization of protons and deuterons in irradiated samples of NH₃ and ND₃ at temperatures 1.0 and 0.5 K, 7-th Int. Symp. on High Energy Spin Physics, Sept. 22-27, 1986, Protvino, Russia 1986

National

- Belyaev A, Dzyubak O, Lukhanin O. Simulations of Q-meter for precise measurements of proton polarization for the JLAB Frozen Spin Target, FROST Working Group at CLAS Collaboration Hall B Meeting, November 3-5, 2005, Newport News, VA, USA 2005
- Belyaev A, Dzyubak O, Lukhanin O. Polarized Target technologies developed at National Scientific Center of Ukraine (KIPT, Kharkov) and their possible applications for the FROST project at JLAB Hall-B, FROST Working Group at CLAS Collaboration Hall B Meeting, November 3-5, 2005, Newport News, VA, USA 2005
- Dzyubak O, Ch. Djalali, and Tedeschi D. Short holding solenoid for Hall-B Frozen Spin Target, Hadron Spectroscopy Group at CLAS Collaboration Hall B Meeting, October 15, 2004, Newport News, VA, USA 2004
- Dzyubak O, Djalali C, and Tedeschi D. Precise field map measurements for Hall-B Frozen Spin Target Polarizing Magnet, Hadron Spectroscopy Group at CLAS Collaboration Hall B Meeting, June 20-22, 2004, Newport News, VA, USA 2004

- Dzyubak O, Djalali C, and Tedeschi D. Forces acting on conductors of 0.3 Tesla holding magnet system in self-induced magnetic field, Real Photon Working Group at CLAS Collaboration Hall B Meeting, November 14, 2003, Newport News, VA, USA 2003
- Dzyubak O, Djalali C, and Tedeschi D. Investigation of a series of dipole magnets for transversal holding magnetic field for the Jlab Hall-B Frozen Spin Polarized Target, Real Photon Working Group at CLAS Collaboration Hall B Meeting, June 30, 2003, Newport News, VA, USA 2003
- Seely M, Dzyubak O, and Recalde N. Magnetic Field Measurements on the Prototypes. Part II, Real Photon Working Group at CLAS Collaboration Hall B Meeting, December 14, 2002, Newport News, VA, USA 2002
- Seely M, Dzyubak O, and Recalde N. Magnetic Field Measurements on the Prototypes. Part I, Real Photon Working Group at CLAS Collaboration Hall B Meeting, November 16, 2002, Newport News, VA, USA 2002
- Dzyubak O. Notes about Holding Magnet System for the Hall-B Frozen Spin Polarized Target, Real Photon Working Group at CLAS Collaboration Hall B Meeting, November 16, 2002, Newport News, VA, USA 2002
- Seely M, Dzyubak O, Recalde N. OPERA(TOSCA) Holding Solenoid calculations for Hall-B Frozen Spin Polarized Target, Real Photon Working Group at CLAS Collaboration Hall B Meeting, October 18, 2002, Newport News, VA, USA 2002
- Seely M, Ch. Keith, D. Crabb, Dzyubak O. Frozen spin mode Polarized Target for Hall-B, Real Photon Working Group at CLAS Collaboration Hall B Meeting, August 9, 2002, Newport News, VA, USA 2002

Regional

None

13. VISITING PROFESSORSHIPS

None

14. CLINICAL PRACTICE, INTERESTS, AND ACCOMPLISHMENTS

CT quality assurance, CT dosimetry, Cardiac CT, Dual-energy CT and clinical applications

15. RESEARCH INTERESTS

Medical imaging physics with an emphasis on volumetric CT
 Computerized Tomography (CT)
 Magnetic Resonance Imaging (MRI)
 Physics in Medicine and Environmental Science

Detecting weak signals, digital filtering
 Optimization of computer simulations
 Parallel computing (Parallel Virtual Machines and GRID)
 Complex nonlinear and stochastic systems
 Nuclear and particle physics
 Image processing and analysis, including registration, segmentation, and classification

16. RESEARCH GRANTS AWARDED

Active Grants

Co- investigator 100% Effort	Micro-CT of Solute Transport in Organs & Tissue Scaffolds. Funded by National Institute of Biomedical Imaging and Bioengineering. R01 EB000305, Ritman (PI)	08/01/2009 - 07/31/2010
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Submitted Grants

PI 100% Effort	Development and evaluation of an algorithm for automated analysis of multiscale tubular objects in large images. James McDonnell Foundation	08/01/2010 - 07/31/2012
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Completed Grants

Co- Investigator 100% Effort	MMV Final -CT Clinical Innovation Center, Funded by Siemens Medical Solutions USA, Inc., SIEMENS #11; 90897009, McCollough (PI)	1/1/2007 – 12/31/2008
Co- Investigator 100% Effort	Implementation of the Polarized HD target at the Thomas Jefferson National Accelerator Facility, Funded by The U.S. Department of Energy. DE-FG02-02ER45959, Djalali and Tedeschi (PIs)	01/2002 - 12/2006

17. PATENTS

Title	Patent number	Date filed	Date issued
<u>Dzyubak OP</u> , Primak AN, McCollough CH. Object identification in dual energy contrast-enhanced CT images.	International Application Number: PCT/US08/699	International Filing Date: 14-JUL-2008	Pending

Dzyubak AP, Karnaukhov IM, A.A.
Lukhanin, and A.Yu. Neffa. Cryogenic
installation.” Bulletin of the Discovery and
Invention USSR. 1987; 28: 272.

Inventor’s
Certificate of
the USSR #
1398550

1986

1987

18. BIBLIOGRAPHY

Full length, peer-reviewed, original articles

1. Brown CL, Hartman RP, Dzyubak OP, Takahashi N, Kawashima A, McCollough CH, Bruesewitz MR, Primak AM, Fletcher JG. Dual-energy CT iodine overlay technique for characterization of renal masses as cyst or solid: a phantom feasibility study, *Eur Radiol.* 2009; 19(5):1289-95.
2. Takahashi N, Hartman RP, Vrtiska TJ, Kawashima A, Primak AN, Dzyubak OP, Mandrekar JN, Fletcher JG, McCollough CH. Dual-energy CT iodine-subtraction virtual unenhanced technique to detect urinary stones in an iodine-filled collecting system: a phantom study, *Am J Roentgenology.* 2008; 190(5): 1169-73.
3. Primak AN, Fletcher JG, Vrtiska TJ, Dzyubak OP, Lieske JC, Jackson ME, Williams JC Jr, McCollough CH. Noninvasive Differentiation of Uric Acid versus Non-Uric Acid Kidney Stones Using Dual-Energy CT, *Academic Radiology* 2007; 14: 1441-7.
4. Primak AN, Dong Y, Dzyubak OP, Jorgensen SM, McCollough CH, Ritman EL. A Technical Solution to Avoid Partial Scan Artifacts in Cardiac MDCT, *Medical Physics.* 2007; 34(12): 4726-37.
5. Dzyubak SN, Gubin YI, Hovorost PP, Komissarenko NF, Orlov AA, Krasnov VP, Pristchepa AL, Dzyubak AP, Sorokin PV, Popov VF. Ecological estimation of radioactive pollution in herbal raw material in the region of Ukrainian Polesie, *Hygiene of populated areas.* 2000; 36(1): 494-501, (In Russian).
6. Gubin YI, Dzyubak OP, Dzyubak SN, Komissarenko NF, Krasnov VP, Orlov AA, Popov VP, Sorokin PV, and Khvorost PP. Studies of Cs-137 transfer from herb raw material to tinctures, *Ukrainian Journal of Radiology.* 2000; 8: 168-70 (In Ukrainian).
7. Lyubinskij VR, Sysoeva EP, Dzyubak OP, Dzyubak SN, and Gubin YI. Development of high-sensitivity spectrometer for radiometric control of medicinal preparations, *Ukrainian Journal of Radiology.* 1999; 7: 474-5 (In Ukrainian).
8. Gubin YI, Dzyubak OP, Dzyubak SN, Komissarenko NF, Krasnov VP, Orlov AA, Popov VP, Sorokin PV, and Khvorost PP. Correlation of 137 Cs extraction from the medicinal raw materials and alcohol concentration in the solvent, *Ukrainian Journal of Radiology.* 1999; 7: 469 (In Ukrainian).
9. Awrejcewicz J, Dzyubak O, and Dzyubak L. Chaos in the three-well potential system, *Mechanics Research Communications.* 2004; 31: 287-94.
10. Berezovoj VP, Bolotin YL, Dzyubak AP, Yanovsky VV, and Zhiglo AV. Nuclear Stochastic Resonance, *JETP Letters.* 2001; 74: 411-4.
11. Berezovoj VP, Bolotin YL, Dzyubak AP, Yanovsky VV, and Zhiglo AV. Stochastic resonance in nuclear fission, *Problems of Atomic Science and Technology.* 2001; 6: 226-9.
12. Dzyubak O, Djalali C, Recalde N, and Tedeschi D. Design of internal superconducting holding magnet for the JLab Hall-B Frozen Spin Polarized Target, *Nucl. Instr. Meth. in Phys. Res.* 2004; A 526: 132-7.
13. Belyaev AA, Vorob'eva NP, Dzyubak AP, Ivanchenko IV, Karelin SY, Karnaukhov IM, Lukhanin AA, Orlov VD, and Popenko NA. Magnetic resonance of chromium (V) with 2-hydroxy-2ethylbutyrate, *Journal of Applied Spectroscopy.* 2001; 68: 623-8.

14. Belyaev AA, Dzyubak AP, Lukhanin AA. The Employment of fitting programs for deuteron polarization calculation in a nuclear polarized target, Problems of Atomic Science and Technology. 2000; 2(36): 38-40.
15. Borisov NS, ..., Dzyubak AP, ..., et al.. Frozen spin solid targets developed at the laboratory of Nuclear Problems (JINR, Dubna), Czechoslovak Journal of Physics. 2000; 50 (Suppl. S1): 401-8.
16. Bazhanov NA, ..., Dzyubak AP, ..., et al.. Frozen spin solid targets developed at the Laboratory of Nuclear Problems (JINR, Dubna), Nucl. Instr. Meth. Sec.A(2-3); 1998: 402, 484-7.
17. Hausner R, ..., Dzyubak AP, ..., et al.. A movable polarized target for high energy spin physics experiments, Nucl. Instr. Meth. 1996; A 372: 349-51.
18. Lehar F, ..., Dzyubak AP, ..., et al.. The movable polarized target as a basic equipment for high energy spin physics experiments at the JINR-Dubna accelerator complex, Nucl. Instr. Meth. 1995; A 356: 58-61.
19. Vertii A, ..., Dzyubak AP, ..., et al.. Spectral characteristics of ammonia irradiated at 90 K, Sov. Phys. Dokl. 1990; 35: 899-901.
20. Agababian KS, ..., Dzyubak AP, ..., et al.. Measurement of polarization parameters Σ , T , and P in photoproduction of π^0 at energies $E_\gamma = 0.9 - 1.35$ GeV, Sov. J. Nucl. Phys. 1989; 50(5): 834-7.
21. Belyaev AA, Dzyubak AP, Lukhanin AA. Manufacturing the ammonium samples for Polarized Targets, Problems of Nuclear Physics and Cosmic Rays (Kharkov University Press). 1987; 28: 45-7 (in Russian).
22. Dzyubak AP, Karnaukhov IM, Lukhanin AA, and A.Yu. Neffa. Cryogenic installation. Author certificate of the USSR # 1398550. Bulletin of the Discovery and Invention USSR. 1989; 28: 272 (in Russian).
23. V.I. Sharov, ..., Dzyubak AP, ..., et al.. Measurements of energy behavior of spin-dependent np observables over a GeV region. Results and prospects. Dubna DELTA-SIGMA experiment, Czechoslovak Journal of Physics. 2001; 51(1) A: A87-A96.
24. V.I. Sharov, ..., Dzyubak AP, ..., et al.. Measurements of the neutron-proton total cross section difference $\Delta\sigma_L(np)$ at 1.59, 1.79 and 2.20 GeV, Czechoslovak Journal of Physics. 2000; 50 (Part 2, Suppl. 1): 325-30.
25. Sharov VI, ..., Dzyubak AP, ..., et al.. Measurements of the np total cross-section difference $\Delta\sigma_L$ at 1.59, 1.79 and 2.20 GeV, Eur. Phys. 2000; J. C 13: 255-65.
26. Adiasevich BP, ..., Dzyubak AP, ..., et al.. Measurement of the total cross section difference $\Delta\sigma_L$ in np transmission at 1.19, 2.49 and 3.65 GeV, Z. Phys. 1996; C 71: 65-74.
27. Ball J, ..., Dzyubak AP, ..., et al.. Proton and neutron polarized targets for nucleon-nucleon experiments at SATURNE II, Nucl. Instr. Meth. 1996; A 381: 4-14.
28. CLAS Collaboration (Nozar M, ..., Dzyubak AP, ..., et al.). Search for the Photoexcitation of Exotic Mesons in the $\pi^+\pi^+\pi^-$ System. Phys. Rev. Lett. 2009; 102: 102002-7.
29. CLAS Collaboration (Gavalian G ..., Dzyubak OP, ... et al.). Beam spin asymmetries in deeply virtual Compton scattering (DVCS) with CLAS at 4.8GeV , Phys. Rev. 2009; C 80: 035206-19.
30. CLAS Collaboration (Osipenko M..., Dzyubak OP, ... et al.). Measurement of semi-inclusive π^+ electroproduction off the proton, Phys. Rev. 2009; D 80: 032004-36.

31. CLAS Collaboration (Lachniet J ..., Dzyubak OP, ... et al.). Precise Measurement of the Neutron Magnetic Form Factor G_M^n in the Few-GeV² Region, Phys. Rev. Lett. 2009; 102: 192001-6.
32. CLAS Collaboration (Nozar M ..., Dzyubak OP, ... et al.). Search for the Photoexcitation of Exotic Mesons in the $\pi^+ \pi^+ \pi^-$ System, Phys. Rev. Lett. 2009; 102: 102002-7.
33. CLAS Collaboration (Battaglieri M ..., Dzyubak OP, ... et al.). Measurement of Direct $f_0(980)$ Photoproduction on the Proton, Phys. Rev. Lett. 2009; 102: 102001-6.
34. CLAS Collaboration (Prok Y ..., Dzyubak OP, ... et al.). Moments of the spin structure functions g_1 -d-2-2 and g_1 for $0.05 < Q^2 < 3.0$ GeV², Phys. Lett. 2009; B 672: 12-16.
35. CLAS Collaboration (Fedotov GV ..., Dzyubak OP, ... et al.). Electroproduction of $p \pi^+ \pi^-$ off protons at $0.2 < Q^2 < 0.6$ GeV² and $1.3 < W < 1.57$ GeV with the CLAS detector, Phys. Rev. 2009; C 79: 015204-26.
36. CLAS Collaboration (Aznauryan IG ..., Dzyubak OP, ... et al.). Electroexcitation of the Roper resonance for $1.7 < Q^2 < 4.5$ GeV² in $ep \rightarrow e n \pi^+$, Phys. Rev. 2008; C 78: 045209-15.
37. CLAS Collaboration (Biselli AS ..., Dzyubak OP, ... et al.). First measurement of target and double spin asymmetries for $e^+ p \rightarrow e p \pi^0$ in the nucleon resonance region above the $\Delta(1232)$, Phys. Rev. 2009; C 78: 045204-14.
38. CLAS Collaboration (Santoro JP, ..., Dzyubak OP, ... et al.). Electroproduction of $\phi(1020)$ mesons at $1.4 \leq Q^2 \leq 3.8$ GeV² measured with the CLAS spectrometer, Phys. Rev. 2008; C 78: 025210-23.
39. CLAS Collaboration (Bosted PE, ..., Dzyubak OP, ... et al.). Ratios of $^{15}\text{N}/^{12}\text{C}$ and $^4\text{He}/^{12}\text{C}$ inclusive electroproduction cross sections in the nucleon resonance region, Phys. Rev. 2008; C 78: 015202-7.
40. CLAS Collaboration (Wood MH, ..., Dzyubak OP, ... et al.). Light vector mesons in the nuclear medium, Phys. Rev. 2008; C 78: 015201-15.
41. CLAS Collaboration (Nasseripour R, ..., Dzyubak OP, ... et al.). Polarized structure function σ_{LT}' for $^1\text{H}(e^+, e' K^+)A$ in the nucleon resonance region, Phys. Rev. 2008; C 77: 065208-22.
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