

**CURRICULUM VITAE**

**PERSONAL**

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Citizenship: USA and Israel

Born: February 14, 1940, New York, USA

Married: Susan

Children: Ruth, Nina, Yael

**EDUCATION**

1957-1961: City College of CUNY, New York, USA  
B. S., Physics

1961-1968: University of Rochester, Rochester, New York, USA  
Ph. D., Physics

Dissertation: "The ( $^3\text{He},d$ ) Reaction on  $^{35}\text{Cl}$  and  $^{37}\text{Cl}$  and the Structure of  $^{36}\text{Ar}$  and  $^{38}\text{Ar}$ "

Advisor: Prof. W. Parker Alford.

## **ACADEMIC AND PROFESSIONAL EXPERIENCE**

Tel Aviv University, School of Physics and Astronomy, Tel Aviv, Ramat Aviv, Israel

1968 - 1970 - Instructor,

1970 - 1973 – Lecturer,

1973 - 1980 - Senior Lecturer,

1980 - 1988 - Associate Professor,

1988 –2003 - Professor

2003-present –Emeritus Professor

University of Rochester, Rochester, N.Y., USA

1961-1968 - Teaching and Research Assistant

Université Joseph Fourier,

Laboratoire de Physique Subatomique et de Cosmologie, Grenoble, France

1969-1970 - Visiting Scientist (3 months a year)

1994 - Visiting Scientist (1 month)

Centre d'Etudes Nucléaires de Saclay, France

1970-1971 - Visiting Research Associate

(on location one year at Saclay)

1972-1975 - Visiting Scientist (2 months a year)

Los Alamos Meson Physics Facility, LAMPF

1975-1977 - Visiting Staff Member, (on location 2 years at LAMPF);

1974, 1978-1984, 1986 - Visiting Scientist (2 months a year)

Oak Ridge National Laboratory

1976 - 1977 - Research Consultant (eight months)

University of Massachusetts, Amherst, Mass.

1980 - 1981 - Visiting Scientist (one month a year)

M. I. T. BATES Electron Accelerator

1980 - 1984 - Visiting Scientist (one month a year)

TRIUMF Meson Facility - University of British Columbia

1981 - 1982 and 1986 - 1987; Visiting Professor

(on location 2 years at TRIUMF)

1983 - 1985, 1988-1993 Visiting Scientist (two months a year)

Brookhaven National Laboratory, BNL,

1988-1990, Visiting Scientist (1-2 months a year)

Fermi National Accelerator Laboratory, FNAL,  
1991-1998, Visiting Scientist (1 month a year)

Laboratori Nazionali de Frascati  
dell' I.N.F.N., Frascati, Italy,  
1992-1993, Visiting Scientist (1 month a year)

Max Planck Institute, Heidelberg  
1994-1999, Visiting Professor, (6 months)

U. Mainz, Institute of Nuclear Physics,  
1999-2003, Mercator professor, Visiting Professor (on location 1.5 year at Mainz)

CERN, Geneva  
1999-2012, Visiting Scientist (1 month a year)

Instituto de Fisica, Universitat Autonom San Luis Potosi, SLP, Mexico,  
2003, Visiting Professor (2 months)..

Bermuda Institute of Ocean Sciences  
2004-2007, Adjunct Senior Scientist (on location 2 years)

2006-2007 Eitan-Mehulal Law Group, Herzliya,, patent writer, 4 months

2008 Sysconet Information Technologies Ltd., Herzliya, Consultant, Border Control  
Technologies

2009-2012 Institute of Archaeology, Tel Aviv U., Consultant

## **ACADEMIC AND PROFESSIONAL AWARDS**

1961: Phi Beta Kappa, Sigma Phi, City College of CUNY.

1975-1977: Israel Commission for Basic Research (Grant Number 6439)  
- Research grant, Study of Pion-Nucleus Reactions

1976-1983: United States-Israel Binational Science Foundation  
- Research grants, Study of Pion-Nucleus Charge Exchange Reactions

1981-1984: United States-Israel Binational Science Foundation  
- Research grant, Transverse Electron Scattering from Light Nuclei, Grant No. 2636/81

1987: National Sciences and Engineering Research Council of Canada,  
International Scientific Exchange Award.

- 1989-1992: Research Grant, Photonuclear Reactions at LEGS  
(Laser-Electron Gamma Source),  
U. S. – Israel Binational Science Foundation Grant 88-00492.
- 1993-1999: Pion and Sigma Polarizabilities and Radiative Transitions at FERMILAB,  
U. S. - Israel Binational Science Foundation Grants 92-00289, 95-00431.
- 1996-1999: Chiral Anomaly Tests, Israel Academy of Science Grant.
- 1999-2002: Hadron-Lepton Interactions at SELEX and COMPASS,  
Israel Academy of Science Grant.
- 2003: Mercator Professor, Johannes Gutenberg University Mainz, 2003

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

American Physical Society (USA), European Physical Society,  
Phi Beta Kappa

### **GRADUATE STUDENTS SUPERVISED**

- 1981: Alex Doron, Ph. D.  
Pion-Nucleus Charge Exchange Reactions on Light Nuclei  
(Advisors: J. Alster and M. A. Moinester)
- 1984: Adoram Erell, Ph. D.  
Study of Isovector Giant Resonances by Pion Charge Exchange Reactions  
(Advisors: J. Alster and M. A. Moinester)
- 1994: Hartmut Hahn, Ph.D.  
Pion Absorption on the Diproton at Low Energies  
(Advisor: M. A. Moinester)
- 1999: Igor Giller, M.Sc.  
Pion Charge Radius  
(Advisor: M. A. Moinester)
- 2000: Aharon Ocherashvili, Ph.D.  
Pion Virtual Compton Scattering  
(Advisor: M. A. Moinester)
- 2005: Igor Giller, Ph.D.  
Pion Polarizability Measurement via Radiative Pion Photoproduction  
(Advisor: M. A. Moinester)

## SCIENTIFIC MEETINGS

American Physical Society, 1967, 1968, 1977, 1986.

Gordon Research Conference, New Hampshire, 1969, 1978, 1980, 1987.

Société Française de Physique, Evian, France, 1971.

CERN-SIN Spring School on Pion Interactions at Low and Medium Energies, Zuz, Switzerland, 1971.

MINERVA (Israel-Germany) Conference - Ein Bokek, Israel, 1979.

Nuclear Physics with Electromagnetic Interactions, Mainz, West Germany, 1979.

Particles and Nuclei International Conference, 1979, 1981, 1984, 1987, 1990, 1996, 2008.

Workshop on Isovector Excitations in Nuclei, TRIUMF, Vancouver, B. C. Canada, 1986.

Kaon Factory Workshops, TRIUMF, Vancouver, B.C., Canada, 1981, 1989, 1990.

Intersections between Particle and Nuclear Physics, 1986, 1991.

Workshop on Hadron Structure from Photo-Reactions at Intermediate Energies, B. N. L., 1992.

Baryons, International Conference on the Structure of Baryons and Related Mesons, Yale University, 1992; U. Bonn, 1998.

Workshop on DAΦNE and other Topics in Particle Physics, Laboratori Nazionali di Frascati, Italy, 1993.

Workshop on the Perspectives of High Energy Strong Interactions Physics at Hadron Facilities, U. Washington INT and FNAL, 1993.

Workshop on Deep Inelastic Scattering, Eilat, Israel, 1994.

International Conference on Physics with GeV Particle Beams, Julich, Germany, 1994.

Workshop on Chiral Dynamics: Theory and Experiment, Cambridge, Mass, 1994; Mainz, Germany, 1997; Newport News, Virginia, 2000.

Workshop on "Physics with Muon and Hadron Beams with a High Intensity Spectrometer," CERN, Geneva, Switzerland, 1994; Munich, Germany, 1999; Trieste, 2002.

Workshop on Virtual Compton Scattering, Clermont-Ferrand U., 1996.

Workshop on Fixed Target Physics at the Main Injector, Batavia, Il., 1997.

Advanced Study Institute, Charles U., Prague, 1997, 2002

Town Meeting on Electromagnetic and Hadronic Physics, Newport News, Virginia, 2000.

International Workshop on Challenges in QCD, Kfar Giladi, Israel, 1999.

German Physics Society, Heidelberg, Germany, 1999, Tubingen 2003.

Conference on Spin Structure of the Proton, Trento, Italy, 2001.

Workshop on Future Physics at COMPASS, CERN, Geneva, Switzerland, 2002.

Physical Society of Mexico, Mexico City, 2003

ANNUAL MEETING OF THE ISRAEL SOCIETY FOR CLAY RESEARCH,  
Rehovot Hebrew University Faculty of Agriculture, Food & Environment, 2010.

Institute for Nuclear Theory program INT-12-2b, University of Washington, Seattle,  
"Lattice QCD Studies of Excited Resonances and Multi-Hadron Systems"  
July 30 - August 31, 2012.

## **SPECIALIZATION**

High Energy Particle and Nuclear Physics

## **RESEARCH INTERESTS**

Scientific Dating, Infrared Imaging Technologies, Archaeology, Radon Diffusion, Patent law, Hydrology and Water Security, EU Border Control (Radiation) Technologies, Pion Polarizability, Chiral Anomaly, Doubly Charmed Baryons, Giant Resonances, Charmed Baryons and Mesons, Hybrid Mesons, Spin Structure of the Proton, Form Factors, Pion Scattering and Absorption Reactions, Nuclear Stripping and Pickup Reactions, Electron Scattering, Pion and Nucleon Induced Charge Exchange Reactions, Photo-Nuclear Reactions, Radon Detection

I carried out research programs during 1969-2012 at leading accelerator laboratories and universities worldwide (CERN in Switzerland, Heidelberg and Mainz in Germany, Grenoble and Saclay in France, Frascati in Italy, TRIUMF in Canada; FNAL, MIT, BNL, ORNL, LANL in USA, etc.). These programs were based on a wide range of experimental apparatus, each program having its own special setup. The programs were very successful, as described in numerous journal publications. My experimental and theoretical works in the fields of high energy nuclear and particle physics are highly regarded.

I gained high level expertise during my teaching and research career with integrated command and control systems of detector apparatus. These allowed for on-line monitoring and control of the performance of a large variety of detection apparatus, and coordinated acquisition, handling, display and analysis of the data. My expertise was achieved through the many courses that I taught (graduate applied and theoretical Nuclear Physics, Electromagnetism, Classical and Quantum Mechanics, Electronics, Hearing and Speech Sciences, etc.), and through the many particle and nuclear physics experiments in which I participated at particle accelerator laboratories

## PUBLICATIONS

### Articles

1. M. A. Moinester  
Multipole Sum Rule Analysis of Single Nucleon Transfer Reactions on  $^{51}\text{V}$   
Nucl. Phys. A94, 81-94 (1967).
2. M. A. Moinester, J. P. Schiffer, W. P. Alford  
Multipole Analysis of Particle-Particle or Particle-Hole Multiplets  
Phys. Rev. 179, 984-995 (1969); Err. Phys. Rev. 185, 1598 (1969).
3. M. A. Moinester, W. P. Alford  
A Determination of the  $f_{7/2} - d_{3/2}$  Effective Interaction Using Multipole Sum Rule Meth  
Nucl. Phys. A144, 305-320 (1970).
4. M.A. Moinester, W. P. Alford  
The Structure of  $^{36}\text{Ar}$  and  $^{38}\text{Ar}$  via the ( $^3\text{He},d$ ) Reaction on  $^{35}\text{Cl}$  and  $^{37}\text{Cl}$   
Nucl. Phys. A145, 143-176 (1970).
5. A. Moalem, M. A. Moinester, J. Alster, Y. Dupont, M. Chabre  
The  $^{92}\text{Mo} (p,t) ^{90}\text{Mo}$  Reaction at 40 MeV  
Phys. Lett. 34B, 392-394 (1971).
6. A. Moalem, M. A. Moinester, N. Auerbach, J. Alster, Y. Dupont  
A Nuclear Structure Study with the  $^{94}\text{Mo} (p,t) ^{92}\text{Mo}$  Reaction  
Nucl. Phys. A177, 145-160 (1971).
7. J. Alster, D. Ashery, A. I. Yavin, J. Duclos, J. Miller, M. A. Moinester  
Detection of Pion Single-Charge Exchange in Zirconium  
Phys. Rev. Lett. 28, 313-315 (1972).
8. D. Ashery, S. Alper, A. Moalem, Y. Shamai, A. I. Yavin, G. Bruge A. Chameaux, M. A. Moinester  
Stripping to Unbound Analog States in Technetium Isotopes  
Phys. Rev. C5, 1729-1732 (1972).

9. A. Moalem, M. A. Moinester, J. Alster, Y. Dupont  
Study of the Even Molybdenum Isotopes with the (p,t) Reaction  
Nucl. Phys. A196, 605-614 (1972).
10. M. A. Moinester, G. Finkel, J. Alster, P. Martin  
Neutron Hole States in  $^{91}\text{Mo}$  and  $^{93}\text{Mo}$  Studied by the (p,d) Reaction  
Nucl. Phys. A202, 473-496 (1973).
11. M. A. Moinester, M. Zaider, J. Alster, D. Ashery, S. Cochavi, A. I. Yavin  
The  $(\pi,\pi\text{N})$  Knockout Reactions on  $^{12}\text{C}$  from 30 to 90 MeV  
Phys. Rev. C8, 2039-2042 (1973).
12. S. Cochavi, S. Gilad, M. A. Moinester, J. Alster, M. Buenerd, P. Martin  
Study of the  $^{91}\text{Zr}(\text{d},^3\text{He})^{90}\text{Y}$  Reaction  
Nucl. Phys. A233, 73-80 (1974).
13. S. Gilad, S. Cochavi, M. A. Moinester, J. Alster, M. Buenerd, P. Martin  
Study of the  $^{92,96}\text{Zr}(\text{d},\alpha)^{90,94}\text{Y}$  Reaction  
Nucl. Phys. A233, 81-91 (1974).
14. D. Ashery, M. Zaider, Y. Shamai, S. Cochavi, M. A. Moinester, A. I. Yavin, J. Alster  
Interaction of Positive and Negative Pions with  $^{27}\text{Al}$  and  $^{28}\text{Si}$   
Phys. Rev. Lett. 32, 943-946 (1974).
15. M. Zaider, J. Alster, D. Ashery, S. Cochavi, M. A. Moinester, A. I. Yavin  
 $(\pi,\pi\text{N})$  Knockout Reaction on  $^{14}\text{N}$  from 50 to 90 MeV  
Phys. Rev. C10, 938-940 (1974).
16. A. Doron, J. Julien, M. A. Moinester, A. Palmari, A. I. Yavin  
Detection of He Ions in the Interaction of 70 MeV  $\pi$  with Aluminum  
Phys. Rev. Lett. 34, 485-487 (1975).
17. Y. Shamai, J. Alster, D. Ashery, S. Cochavi, M. A. Moinester, A. I. Yavin, E. D. Arthur, D.M. Drake  
Measurements of the  $(\pi^+, \pi^0)$  Reaction on Light Elements in the (3,3)  
Resonance Region  
Phys. Rev. Lett. 36, 82-85 (1976).
18. A. Nakada, N. Haik, J. Alster, J. B. Bellicard, S. Cochavi, B. Frois,  
M. Huet, P. Leconte, P. Ludeau, M.A. Moinester, Phan Xuan Ho, S. Turck  
The Excitation of the Ground State Rotational Band of  $\text{Sm}^{152}$  by 250 MeV Electrons  
Phys. Rev. Lett. 38, 584-587 (1977).
19. S. Gilad, J. D. Bowman, M. D. Cooper, C. M. Hoffman, M. A. Moinester,  
J. M. Potter, R. H. Heffner, F. H. Cverna, H. W. Baer, P. R. Bevington, M. W. McNaughton  
A Position - Sensitive, High Energy Gamma-Ray Detector  
Nucl. Instr. and Meth., 144(2), 103-108 (1977).



20. M. Zaider, D. Ashery, S. Cochavi, S. Gilad, M. A. Moinester, Y. Shamai A. I. Yavin  
De-Excitation Gamma-Rays from the Interaction of 70 MeV Pions with s - d Shell Nuclei  
Phys. Rev. 160, 2313-2324 (1977).
21. F. Milder, M. Blecher, K. Gotow, D. Jenkins, P. Roberson, R. L. Burman  
M. A. Moinester, R. P. Redwine, F. E. Bertrand, T. P. Cleary, E. E. Gross,  
C. A. Ludemann, C. W. Darden, R. E. Edge, D. Malbrough, T. Marks, B.M. Freedom  
Inelastic Scattering of  $\pi^+$  Mesons from Nuclei at 50 MeV  
Phys. Lett. 72B, 159 (1977).
22. D. J. Malbrough, C. W. Darden, R. D. Edge, T. Marks, B. M. Freedom,  
R. L. Burman, M. A. Moinester, R. P. Redwine, F. E. Bertrand, T. P. Cleary,  
E. E. Gross, C. A. Ludemann, K. Gotow  
Elastic Scattering of Positive Pions on  $^{16}\text{O}$  at 40.0 and 49.7 MeV  
Phys. Rev. 170, 1495-1501 (1978).
23. M. A. Moinester, R. L. Burman, R. P. Redwine, D. J. Malbrough, C. W.  
Darden, R. D. Edge, F. E. Bertrand, T. P. Cleary, E.E. Grass, C. A. Ludemann,  
M. Blecher, K. Gotow, D. Jenkins, F. Milder  
Elastic Scattering of Positive Pions on  $^{12}\text{C}$  at 49.9 MeV  
Phys. Rev. 180, 2678-2682 (1978).
24. J. D. Bowman, M. D. Cooper, R. H. Heffner, C. Hoffman, M. A.  
Moinester, J. Potter, J. Alster, S. Gilad, H. W. Baer, P. R. Bevington, F.  
Cverna, M. McNaughton  
A High Resolution  $\pi^0$  Spectrometer for Nuclear Structure Studies  
IEEE Transactions on Nuclear Science, Vol. NS-25, No.1, 344-346, (1978).
25. L. F. Mausner, M. A. Moinester, J. D. Knight, S. Cochavi, S. S. Friedland  
In-Vivo Beam Localization by Positron Activation in Pion Therapy  
Radiat. Res. 80, 10-23 (1979).
26. M. Blecher, K. Gotow, D. Jenkins, F. Milder, F.E. Bertrand, T. P.  
Cleary, E. E. Gross, C. A. Ludemann, M. A. Moinester, R. L. Berman, R. P.  
Redwine, M. A. Yates-Williams, S. Dam, C. W. Darden, III, R. D. Edge, D. J.  
Malbrough, T. Marks, B. M. Freedom  
Positive Pion-Nucleus Elastic Scattering at 40 MeV  
Phys. Rev. 200, 1884-1890 (1979).
27. H. W. Baer, J. D. Bowman, M. D. Cooper, F. H. Cverna, C.M. Hoffman M.  
B. Johnson, N.S.P. King, E. R. Siciliano, J. Piffaretti, J. Alster A. Doron,  
S. Gilad, M. A. Moinester, P. R. Bevington, E. Winkelmann  
Observation of Isobaric Analog States in Pion Single Charge Exchange Reactions  
Phys. Rev. Letters, 45, 982-986 (1980).

28. B. M. Preedom, S. E. Dam, C. W. Darrden, III, R. D. Edge, D. J. Malbrough, T. Marks, R. L. Burman, M. Hamm, M. A. Moinester, R. P. Redwine, M. A. Yates, F. E. Bertrand, T. P. Cleary, E. E. Gross, N. W. Hill, C. A. Ludemann, M. Blecher, K. Gotow, D. Jenkins, F. Milder  
Positive Pion-Nucleus Scattering at 30 and 50 MeV  
Phys. Rev. C 23, 1134-1140 (1981).
29. M. A. Moinester, J. Alster, G. Azuelos, J. B. Bellicard, B. Frois, M. Huet, P. Leconte, Phan Xuan Ho  
Charge and Transition Densities for the Samarium Isotopes by electron Scattering  
Phys. Rev. C 24, 80-88 (1981); Err: Phys. Rev. C 25, 2137 (1982).
30. H. W. Baer, R. D. Bolton, J. D. Bowman, M. D. Cooper, F. H. Cverna, R. H. Heffner, C. M. Hoffman, N. S. P. King, J. Piffaretti, J. Alster, A. Doron, S. Gilad, M. A. Moinester, P. R. Bevington, E. Winkelmann  
Design, Construction, and Performance of a High-Resolution Spectrometer for Nuclear Physics Experiments  
Nucl. Instr. Meth. 180, 445-459 (1981).
31. B. G. Ritchie, R. D. Edge, D. J. Malbrough, B. M. Preedom, F. E. Bertrand, E. E. Gross, P. E. Obenshain, J. R. Wu, M. Blecher K. Gotow, M. A. Moinester  
Reaction  $\pi^+ d \rightarrow p+p$  at 20 to 65 MeV  
Phys. Rev. C 24, 552 (1981); Err: Phys. Rev. C 26, 2337 (1982).
32. M. A. Moinester, G. Azuelos, J. Alster, A. E. L. Dieperink  
Charge and Transition Densities of Samarium in the Interacting Boson Model  
Nucl. Phys. A 383, 264-284 (1982).
33. S. H. Dam, R. D. Edge, B. M. Preedom, M. Hamm, R. L. Burman, R. Carlini, R. P. Redwine, M. A. Yates, M. Blecher, K. Gotow, F. E. Bertrand, E. E. Gross, M. A. Moinester  
Elastic Scattering of  $\pi^+$  and  $\pi^-$  from  $^{40}\text{Ca}$  at 64.8 MeV  
Phys. Rev. C 25, 2574-2582 (1982).
34. A. Doron, J. Alster, A. Erell, S. Gilad, M. A. Moinester, R. A. Anderson, H. W. Baer, J. D. Bowman, M. D. Cooper, F. H. Cverna, C. M. Hoffman, N. S. P. King, M. J. Leitch, J. P. Piffaretti, P. R. Bevington, E. Winkelmann, C. D. Goodman  
Energy Dependence of the Small-Angle differential Cross Sections to Isobaric Analog States in  $^7\text{Li}(\pi^+, \pi^0)^7\text{Be}$  and  $^{13}\text{C}(\pi^+, \pi^0)^{13}\text{N}$   
Phys. Rev. Lett. 48, 989-992 (1982).

35. A. Doron, J. Alster, A. Erell, S. Gilad, M. A. Moinester, R.A. Anderson, H. W. Baer, J. D. Bowman, M. D. Cooper, F. H. Cverna, C.M. Hoffman, N.S.P. King, M. J. Leitch, J.P. Piffaretti, P.R. Bevington, E. Winkelmann, C.D. Goodman  
Angular Distributions of Single Pion Charge Exchange Reactions to Isobaric Analog States in Light Nuclei  
Phys. Rev. C26, 189-197 (1982).
36. M. D. Cooper, H. W. Baer, J. D. Bowman, F. H. Cverna, R.M. Heffner, C. M. Hoffman, N.S.P. King, J. Piffaretti, J. Alster, A. Doron, S. Gilad, M. A. Moinester, P.R. Bevington, E. Winkelmann  
Measurement of the  $\text{He}^3(\pi^-, \pi^0)$  Reaction at  $T_\pi=200$  MeV  
Phys. Rev. C25, 438-445 (1982).
37. H. W. Baer, R. Bolten, J. D. Bowman, M. D. Cooper, F. Cverna, N.S.P. King, M. Leitch, H.S. Matis, J. Alster, A. Doron, A. Erell, M. A. Moinester, E. Blackmore  
Observation of analogs of the Giant Dipole Resonance in Pion Single Charge Exchange on  $^{40}\text{Ca}$   
Phys. Rev. Lett. 49, 1376 (1982).
38. J. Lichtenstadt, J. Alster, M. A. Moinester, J. Dubach, R. S. Hicks, G. A. Peterson, S. Kowalski  
Low Lying Levels of  $^7\text{Li}$  Studied by Electron Scattering  
Phys. Lett. 121B, 337-380 (1983).
39. J. D. Bowman, H. W. Baer, R. Bolton, M. D. Cooper, F. Cverna, N.S.P. King, M. Leitch, H. S. Matis, J. Alster, A. Doron, A. Erell, M. A. Moinester, E. Blackmore  
Observation of the Isovector Giant Monopole State by the Reaction  $(\pi^-, \pi^0)$   
Phys. Rev. Lett. 50, 1195-1198 (1983).
40. U. Sennhauser, E. Piasetzky, H. W. Baer, J. D. Bowman, M.D. Cooper, H. S. Matis, H. J. Ziock, J. Alster, A. Erell, M. A. Moinester, F. Irom  
Isobaric Analog States in Pion Single Charge Exchange Reactions on and above the (3,3) Resonance Energy  
Phys. Rev. Lett. 51, 1324-1327 (1983).
41. F. E. Obenshain, F. E. Bertrand, E. E. Gross, N. W. Hill, J.R. Wu, R. L. Burman, M. Hamm, M. J. Leitch, R. D. Edge, B. M. Preedom, M. A. Moinester, M. Blecher, K. Gotow  
Positive Pion-Nucleus Elastic Scattering at 20 MeV  
Phys. Rev. 27C, 2753-2758 (1983).

42. F. Irom, J. R. Comfort, R. Jeppeson, J. J. Kraushaar, R. A. Ristinen, W. Tevo, J. L. Ullmann, H. W. Baer, J. D. Bowman, M. D. Cooper, A. Erell, M.A. Moinester, E. Piassetzky, U. Sennhauser, E. R. Siciliano  
Pion Single Charge Exchange on  $^{14}\text{C}$   
Phys. Rev. C28, 2568 (1983).
43. M. Plum, R. A. Lindgren, J. Dubach, R. Hicks, R. L. Hoffman, B. Parker, G. A. Peterson, J. Lichtenstadt, J. Alster, M. A. Moinester, H. W. Baer  
Isoscalar and Isovector Spin Transition Densities of  $J^\pi = 4^-$  States in  $^{14}\text{C}$   
Phys. Lett. 137B, 15-19 (1984).
44. I. Navon, M. J. Leitch, D. A. Bryman, T. Numao, P. Schlatler, G. Azuelos, R. Poutissou, R. A. Burnham, M. Hasinoff, J. M. Poutissou, J. A. Macdonald, J. E. Spuller, C. K. Hargrove, H. Mes, M. Blecher, K. Gotow, M. A. Moinester, H. Baer  
Pion Double Charge Exchange at 50 MeV on  $^{14}\text{C}$   
Phys. Rev. Lett. 52, 105-108, (1984).
45. M. D. Cooper, H. W. Baer, R. Bolten, F. Cverna, N.S.P. King, M. Leitch, J. Alster, A. Doron, A. Erell, M. A. Moinester, E. Blackmore, E. R. Siciliano  
Angular Distribution for  $^{15}\text{N}(\pi^+, \pi^0)^{15}\text{O}$  (g.s.) at  $T_\pi = 48\text{MeV}$   
Phys. Rev. Lett. 52, 1100-1103, (1984).
46. M. A. Moinester, D. R. Gill, J. Vincent, D. Ashery, S. Levenson, J. Alster, A. Altman, J. Lichtenstadt, E. Piassetzky, K. A. Aniol, R. R. Johnson, R. Tacik, W. Gyles, B. Barnett, R. J. Sobie, H.P. Gubler  
Isospin Dependence of Pion Absorption on Nucleon Pairs at  $T_\pi = 65\text{MeV}$   
Phys. Rev. Lett. 52, 1203-1206 (1984).
47. A. Erell, J. Alster, J. Lichtenstadt, M. A. Moinester, J. D. Bowman, H. W. Baer, M. D. Cooper, F. Irom, Q. Ingram  
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