



## **CURRICULUM VITAE**

**NAME:** [Eliazer Piasezky](#)

**DATE OF BIRTH:** 1953

**PLACE OF BIRTH:** [Tel Aviv, Israel](#)

**ISRAELI MILITARY SERVICE:** [Major in Reserves](#)

**MARITAL STATUS:** [Married + 3 children](#)

**Home page:** <http://www-nuclear.tau.ac.il/~eip/>

### **EDUCATION**

[1971-1974 Tel Aviv University Physics B.Sc.](#)

[1976-1978 Tel Aviv University Physics M.Sc.](#)

[1978-1981 Tel Aviv University Physics Ph.D.](#)

[1997-1999 Tel Aviv University Archeology B.A.](#)

**Title of Master's Thesis:** [Nonstatic  \$N\Delta\$  Interaction Through Multipion Exchange](#)

**Name of Supervisor:** [J. M. Eisenberg](#)

**Title of Doctoral Dissertation:** [Study of Pion Induced Nuclear Knockout Reactions](#)

**Name of Supervisor:** [D. Ashery](#)

### **Academic and Professional Awards**

[1997 The Helena and Philip Spitzer Award \(The Israel Science foundation\)](#)

[1998/9 Commendation for physics teaching, Engineering Faculty, Tel Aviv University.](#)

[2003/4 Commendation for physics teaching, Engineering Faculty, Tel Aviv University.](#)

### **ACADEMIC AND PROFESSIONAL EXPERIENCE:**

<b>Date</b>	<b>Name of Institution</b>	<b>Dept.</b>	<b>Rank/Function</b>
<a href="#">1976-1981</a>	<a href="#">Tel Aviv University</a>	<a href="#">Physics</a>	<a href="#">Teaching Assistant</a>
<a href="#">1981-1982</a>	<a href="#">Los Alamos Natl. Lab.</a>	<a href="#">LAMPF</a>	<a href="#">Post-doctorate</a>

1982-1984	Los Alamos Natl. Lab.	LAMPF	Staff Member
1984-1986	Tel Aviv University	Physics	Senior Lecturer
1987-1992	Tel Aviv University	Physics	Assoc. Professor
1989-1991	Tel Aviv University	Nuclear Physics.	Department Chairman
1992	Brookhaven Natl. Lab.	Physics	Visiting Physicist
1992	Tel Aviv University	Physics	Professor
1996-1998	Tel Aviv University	Nuclear Physics	Department Chairman
2000-2002	Tel Aviv University	Nuclear Physics	Department Chairman

#### **ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS (Invited Talks)**

1982 ACS Natl. Meeting, Kansas City.

1984 APS Division of Nuclear Physics Meeting, Vanderbilt, USA.

1984 Int'l Workshop on Nuclear Photon Scattering, Brookhaven, USA.

1984 Annual LAMPF Users Group Meeting, Los Alamos, USA.

1985 Int'l Workshop on DCX, LAMPF, USA.

1985 XII European Conference on the Physics and Chemistry of  
complex nuclear reactions (XII ECCONUR), Neve-Ilan, 1985.

1987 Annual IPS Meeting, Tel Aviv, Israel.

1987 Int'l Workshop on Pion Nucleus Interactions, SIN, Switzerland.

1988 Int'l Symposium on Hypernuclear and Low-energy Kaon Physics,  
Padova, Italy Sept. 1988.

1990 EPS Nuclear Physics Study Conference, Crete, Greece, May 1990.

1991 Int'l Workshop on Electronuclear Physics at PEP, SLAC, Stanford,  
Jan.1991.

1991 Int'l Workshop on Pions in Nuclei, Pessicola, Spain, June 1991.

- 1994 Int'l Symposium on Medium Energy Physics, Beijing PRC, Aug. 1994.
- 1995 Int'l Workshop on options for Color Coherence/Transparency studies, CEBAF, Virginia, USA, May 1995.
- 1996 Topical Conference on Hard Diffractive Processes, Eilat, Feb. 1996, Israel.
- 1997 6<sup>th</sup> Conference on the Intersections of Particle and Nuclear Physics, Montana, USA, May 1997.
- 1997 3<sup>rd</sup> Workshop on Electromagnetically Induced Two-Nucleon Emission Glasgow, Scotland, June 1997.
- 1998 The Nuclear and Particle Physics Conference at Dubrovnick, Dubrovnick, Croatia, November, 1998.
- 2000 Hadrons in the Nuclear Medium, Workshop Miami, FL, USA, March 2000.
- 2000 7<sup>th</sup> Conference on the Intersections of Particles and Nuclear Physics, CIPANP 2000, Quebec City, Canada, May 2000.
- 2001 5<sup>th</sup> Workshop on Electromagnetically Induced Two-Hadron Emission Lund Sweden, June, 2001.
- 2002 BARYONS 2002, 8<sup>th</sup> International Conference on the Structure of Baryons, Jefferson Lab, USA, March 2002.
- 2003 Workshop on the Deuteron, March 2003, FIU, Miami, Florida, USA.
- 2003 The 2<sup>nd</sup> Nuclear and Particle Physics Conference at Dubrovnick, Dubrovnick, Croatia May 2003.
- 2003 6<sup>th</sup> Workshop on Electromagnetically Induced Two-Hadron Emission. Pavia, Italy, September 2003.
- 2003 1<sup>st</sup> Jefferson National Lab Workshop on 5 Quark Baryons, USA, November, 2003.
- 2004 International Conference on Radiocarbon Dating and the Iron Age of the Southern Levant, Oxford, UK, September 2004.
- 2005 European Center for Theoretical Studies (ECT) Workshop on Probing Microscopic Structure of the Lightest Nuclei in Electron Scattering Trento, Italy, July 2005.

**ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS (Organizing Committee)**

1999 45<sup>th</sup> IPS Meeting, Tel Aviv, Israel, March 1999.  
1999 International Workshop: Challenges in QCD, Kfar Giladi, Israel, June 1999.  
2000-2005 The Joint Nuclear Physics Seminar, Israel.

## GRANTS

1986-1989	U.S. - Israel Binational Science Foundation "Study of Pion Double Charge Exchange"
1986-1988	B. de Rothschild fellowship
1986	VATAT - A grant to rebuild a 360° Spectrometer
1986	Internal grant to start a $K^+$ total cross-section measurement at BNL
1988-1992	Academy grant "Study of N-N Correlation in Nuclei by the Low Energy Pion Double Charge Exchange Reaction"
1990	VATAT - A grant to build a portable data acquisition center.
1992-1995	Academy grant "Study of short range nuclear correlations in nuclei via hard nuclear reactions"
1996-1998	U.S.-Israel Binational Science Foundation: " Looking Beyond the Simple Nuclear Structure of Nuclei with Coincidence Measurements of Nuclear Knockout Reactions"
1997	VATAT-A grant to Develop a Calorimeter
1997-1999	Academy grant "Study Color Transparency with Hard Quasi-Elastic Scattering of the Deuteron"
1998-2001	U.S.-Israel Binational Science Foundation: "Measurements for Studying the Internal Small-Distance Structure of Nuclei"
2000-2004	Academy grant "Measurement of Two-Nucleon Short Range Correlations in Nuclei"
2004-2008	Academy grant "Hard Photodisintegration of a Proton Pair"
2005-2009	U.S.-Israel Binational Science Foundation

“The BigBite spectrometer, Design, Construction, and Measurements.”

## STUDENTS SUPERVISED

1986-1988	Z. Weinfeld Study of Pion Double Charge at Low Energies (Master Thesis) Tel Aviv University
1988-1992	Z. Weinfeld Reaction Mechanism and Nuclear Correlations Study by Low Energy Pion Double Charge Exchange (Ph.D. Thesis) Tel Aviv University
1988-1991	Y. Mardor $K^+ C$ Total Cross Section (Master Thesis) Tel Aviv University
1990-1992	R. Weise $K^+ A$ Total Cross Section (Master Thesis) Tel Aviv University
1991-1997	I. Mardor Nuclear Filtering in Wide Angle Exclusive Reactions (Ph.D Thesis) Tel Aviv University
1992-2001	H. Acklander An Experimental Study of Short Range Nuclear Correlation (Ph.D. Thesis) Tel Aviv University
1991-1997	Y. Mardor Quasielastic Hadronic Scattering at Large Momentum Transfer (Ph.D. Thesis) Tel Aviv University
1998-2000	A. Malki Backward Emitted High-Energy Neutrons in Hard Reactions (Master Thesis) Tel Aviv University
2000-2003	I. Yaron The investigation of the high momentum component of nuclear wave function using hard quasielastic $A(p, 2p)$ reactions. (Master Thesis), Tel Aviv University
2003	R. Shneor High luminosity operation of large solid angle scintillator arrays in Jefferson Lab Hall A. (Master Thesis), Tel Aviv University
2000-	A. Malki, Ph.D. Student, Tel Aviv University
2004-	R. Shneor, Ph.D. Student, Tel Aviv University

## SPOKESMAN ON PROPOSALS

The spokespersons are proposing the measurement, presenting it to the program advisory committee of the accelerator and if approved are responsible for the preparation before the run, the detail issues of running the experiment, analysis and publications of the data.

1. LAMPF EXP. 734; "Pion Production in Pion-Nucleus Collisions"  
Collaboration: TAU, LANL. Status: done.
2. LAMPF EXP. 776; "Study of the  $^{16}\text{O}(\pi^+, \pi^0 p)$  Reactions"  
Collaboration: MIT, TAU, LANL, SIN, Weizmann Inst. Status: done
3. LAMPF EXP. 783; "Pion Induced Pion Production on Deuterons",  
Collaboration: TAU, LANL, MIT, University of Wyoming. Status: done
4. LAMPF EXP. 820; "Pion Induced Pion Production on  $^3\text{He}$ "  
Collaboration: TAU, LANL, MIT, University of Wyoming. Status: done
5. LAMPF EXP 827; "Study of IAS in Pion Single-Charge-Exchange Reactions in the 300-500 MeV Region"  
Collaboration: LANL, TAU, Arizona State University, Colorado State University, Utah State University. Status: done
6. LAMPF EXP. 920; "Study of the  $^3\text{He}, ^3\text{H}(\pi^+, \pi^0 p)$  Reaction by detecting Neutral Pions and Protons in Coincidence"  
Collaboration: MIT, TAU, LANL, University of Virginia. Status: done
7. LAMPF EXP. 921; "Study of the  $^3\text{He}, ^3\text{H}(\pi^+, \pi^0 p)$  Reactions by Detecting Neutral Pions and Protons Coincidence Collaboration: MIT, TAU, LANL, University of Virginia. Status: done.
8. LAMPF EXP. 979; "Look for a Possible  $\pi\text{NN T}=2$  Resonance with the  $\Pi \pm d \rightarrow \Pi^- + x$  Reaction using the Clam Shell Spectrometer" Collaboration: TAU, LANL. Status: done
9. LAMPF EXP. 1001; "Study of Double-Analog Transitions at Pion Energies 20 to 80 MeV"  
Collaboration: LANL, TAU, Virginia Polytechnic Institute. Status: done.
10. LAMPF EXP. 1020; "Low-Energy Pion Double-Charge Exchange on  $^{42}\text{Ca}$  and  $^{44}\text{Ca}$ "  
Collaboration: TAU, LANL, VIRGINIA Polytechnic Inst, Arizona State University.

Status: done

11. BNL EXP. 855; "Kaon-Nucleus Total Cross section Measurements and Partial Deconfinement in Nuclei"

Collaboration: TAU, BNL, TRIUMF. Status: done

12. LAMPF EXP. 1045 "Pion DCX on N=28 isotones"

Collaboration: TAU, LANL. Status: done

13. LAMPF EXP. 1095 "A search for T=2 Dibaryons via a coincidence measurement of the  $p(p, X^{+++})\Pi^-$  Reaction"

Collaboration: TAU, LANL, TEXAS University. Status: done

14. LAMPF EXP. 1098 "Energy Dependence of Low-Energy Double-Charge Exchange"

Collaboration: TAU, LANL, Arizona State University. Status: done

15. TJNAF EXP. 97-106/EXP 2001-015 "Studying the internal small-distance structure of nuclei via the triple coincidence (e,e'p+N) measurement"

Collaboration: TAU, MIT, KSU, TJNAF, BNL, PSU, North Carolina AT SU,

Hampton U., Univ. of Auckland, Yerevan Physics. Inst., Inst. of NP, St. Petersburg.

Status: done

16. TJNAF EXP 2003/005 "Hard Photodisintegration of a Proton Pair"

Collaboration: California State U., ODU, IPN, PSU, Regina U., Rutgers, Temple U., TAU.

Status: approved

17. TJNAF proposal 2004/011 "Photoproduction of  $\theta^+$  via the  $\gamma d \rightarrow \theta^+ \Lambda$  reaction"

Status: under discussion