

## Curriculum Vitae

L.P. Horwitz, 2 June, 2008

Last name: HORWITZ      First Names: Lawrence Paul  
Birthdate: October 14, 1930

### *Education:*

9/48-6/52, NYU College of Engineering, Engineering Physics  
BSEP.

9/52-6/54, Harvard University, Physics, A.M.

6/54-2/57, Harvard University, Theoretical, Ph.D.

### *Major Research Interests:*

Particle Physics, statistical mechanics, mathematical physics,  
theory of unstable systems, classical and quantum chaos,  
relativistic quantum mechanics,  
quantum field theory, general relativity, representations of quantum  
theory on hypercomplex Hilbert modules, group theory and functional  
analysis, stochastic theories of irreversible quantum evolution.

### *Employment:*

10/98-present    Tel Aviv University, Particle Physics  
Professor Emeritus

2004-present    Research, Department of Physics, College of Judea and  
Samaria

8/72-10/98    Tel Aviv University, Particle Physics  
Full Professor

9/91-9/2004    Bar Ilan University, Teaching and research  
Full Professor (ext)

9/71-8/72    University of Geneva, Theoretical Physics  
Visiting Professor

9/69-9/71    University of Denver, Theoretical Physics and  
Mathematical Physics

Full Professor

9/66- 9/69    University of Denver, Theoretical  
Physics and Mathematical physics

Associate Professor

8/67-8/68    Tel Aviv University

Visiting Associate Professor

8/64-8/66    University of Geneva, Theoretical Physics

Research Associate  
4/57-8/65 International Business Machines Corp.  
Theoretical Physics and Mathematics  
Staff Member  
7/52-9/54 Pickard and Burns, Inc. Needham, Mass.  
Consultant

*Frequent Visits, long and short term:*

University of Texas at Austin, Ilya Prigogine Center for  
Statistical Mechanics and Complex Systems  
University of Geneva, Department of Theoretical Physics, CERN Geneva,  
Institute for Advanced Study, Princeton, N.J.

*Scholastic Honors:*

Sigma Pi Sigma, Tau Beta Pi, Sigma Xi, Samuel F.B. Morse Medal 6/52,  
Summa cum laude, 6/52 (NYU), National Science Foundation Fellowship  
52-53, Shell Oil Fellow 56-57, 3 issues Foundations of Physics in  
honor of 65 birthday (1996)[Foundations of Physics **26**, No. 12, 1575-1739  
(1996); **27**, No. 1, 1-134 (1997); **27** No. 2, 135-332 (1997)].  
Outstanding Referee APS 2008.

*Society Membership:*

American Physical Society (Particle Physics)  
Swiss Physical Society  
European Physical Society  
International Association for Mathematical Physics  
Israel Physical Society  
International Quantum Structures Association  
Association of Members of the Institute for Advanced Study (from 1990)  
International Association for Relativistic Dynamics.

*Editorial and Advisory:*

International Advisory Committee, International Association for  
Mathematical Physics in Leipzig, 1991.  
Editorial Board, Foundations of Physics Letters  
Conference Secretary and co-editor of Proceedings for VIII  
International Colloquium on Group Theoretical Methods in Physics,  
Kiriath Anavim, Israel, March 25-29 (Annals of the Israel Physical  
Society vol.3 (1980), A. Hilger, Bristol, 1980).  
Organizer and Chairman, Session on Groups and Semigroups in the  
Description of Unstable Systems, VII International Colloquium on  
Group Theoretical Methods in Physics, Austin, Texas, Sept. 11-16, 1978  
International Advisory Committee, Organizing Committee, Discrete  
Chaotic Dynamics (Denmark, 2000).

Editorial Board, Fundamental Theories of Physics, Kluwer Publishers

Panel of Assessors ARC, Australian National Funding DEET.

Editorial Board, Algebras, Groups and Geometry, Hadronic Journal, Hadronic Journal Supplement.

Standing Committee, International Association for Relativistic Dynamics

Chairman, Organizing Committee International Association for Relativistic Dynamics (IARD), 2000, Bar Ilan, Ramat Gan, Israel.

Chairman, Organizing Committee International Association for Relativistic Dynamics (IARD) 2004, Saas-Fee, Switzerland, June 12-19 2004.

Chairman and Organizer, Session on Particle, Fields and Relativity, Israel Physical Society, Technion Dec. 9, 2004.

Organizing Committee, International Association for Relativistic Dynamics, Thessaloniki, Greece, June 22-26, 2008.

*Ph.D. Students:*

1. T.C. Guo 1971 Catholic University, Washington, D.C.
2. Stuart Raby, 1976, Ohio State University
3. Leah Mizrachi, 1978, Beer Sheva
4. Y. Lavie (Z" L), 1985 fell in Lebanon.
5. D. Sepunaru 1981, Industrial laboratory, Ashdod, Israel.
6. A Soffer, 1986, Professor of Mathematics, Rutgers.
7. S. Shashoua, 1986, Tel Aviv, industrial research
8. R.I. Arshansky, 1987 Jerusalem
9. Baruch Rosenstein, 1987, Professor of Physics, National Chiao Tung University, Hsinchu, Taiwan.
10. Jacob Levitan, 1988 (co-advisor with M. Kaveh), Bar-Ilan and Professor at College of the Shomron, Ariel, Israel.
11. Alex Kovner, 1988, Fellow at Oxford University, University of Bristol.
12. R. Ashkenazy, 1999, M.I.T. Ben Gurion University, Desert Research (2004).
13. Ruben Faibish Ph.D. 2001, industrial research, Israel.
14. Y. Strauss 2001-2, University of Toronto, Rutgers University; Mathematics Department, Hebrew University, from October 2003. Ph.D. 5 May 2004 (with Shmuel Nussinov). Ben Gurion University, Beer Sheva (2005).
15. D. Bar 2001-2
16. Ori Oron 2003 (with Shmuel Nussinov), Industrial research. Elta.
17. Leonid Burakovsky, Staff Member Los Alamos National Laboratory
18. Martin Land, Professor at Hadassah College, Jerusalem.
19. Nadav Shnerb (Ph.D. Bar Ilan) Professor, Bar Ilan University.

*Present Doctoral Students*

Doron Ludwin (with Amos Ori, Technion)

Idan Talshir

Igal Aharonovitch (Bar Ilan)

Jonathan Silman (with B. Reznik)

Students during visit 1967-68 co-advisor with Y. Ne'eman:

A. Hirshfeld 1968 Dortmund

Y. Achiman 1968 Heidelberg

M. Gronau 1968 Technion, Haifa

A. Kantorovich 1968, Tel Aviv University, History and Philosophy of Science.

Jointly with Yuval Ne'eman 1998-2000

Ofer Megged. Industrial and mathematics, Tel Aviv University