Curriculum Vitae

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Born:	5 December 1932, New York City
Marital Status:	Married, four children, resident of Brookline, MA
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Degrees (Earned and Honorary)

- B.A., Cornell University, 1954
- A.M., Harvard University, 1955
- Ph.D., Harvard University, 1958
- D.Sc., Yeshiva U., 1978 (honorary)
- D.Sc., U. of Aix-Marseille II, 1982 (honorary)
- D.Sc., Adelphi U., 1989 (honorary)
- D.Sc., Bar Ilan U., 1989 (honorary)
- D.Sc., Gustavus Adolphus U., 1989 (honorary)
- D.Sc., Case Western Reserve U., 2001 (honorary)
- Professor, University of Nanjing (1996) (honorary)

- Chinese Acad. Science Einstein Professor (2005) (honorary)
- D.Sc., University of Bologna. 2006 (honorary)
- Professor, Beihang University (2008) (honorary)

Positions

- 1958-60 Postdoctoral Fellow, Niels Bohr Institute and CERN
- 1960-61 Research Fellow, CalTech
- 1961-62 Assistant Professor, Stanford
- 1962-66 Associate Professor, U Cal, Berkeley
- 1966-78 Professor, Harvard
- 1979-00 Higgins Professor of Physics and
- 1987-97 Mellon Professor of the Sciences, Harvard
- 1962-66 Alfred Sloan Fellow
- 1964 Visiting Scientist, Niels Bohr Institute
- 1968 Visiting Scientist, CERN
- 1971 Visiting Professor, Aix-Marseille
- 1974 & 1980 Visiting Professor, MIT
- 1980- Associate of Dunster House, Harvard University
- 1968-90 Consultant, Brookhaven National Laboratory
- 1983-94 A liated Senior Scientist, Houston
- 1983-84 University Scholar, Texas A & M
- 1983-84 Distinguished University Professor and Visiting Professor of Physics, Boston U
- 1984-00 Distinguished Visiting Scientist, Boston U
- 1995- Honorary Professor, University of Nanjing
- 2000- Higgins Prof. of Physics, Emeritus, Harvard U
- 2000- Arthur G.B. Metcalf Professor of Mathematics and the Sciences
- 2000- University Professor, Boston University

Societies and Boards

- National Academy of Sciences
- American Academy of Arts and Sciences
- American Philosophical Society
- Foreign Member, Russian Academy of Sciences
- Foreign Member, Korean Academy of Sciences
- Foreign Menber, Costa Rica Academy of Sciences
- Foreign Member, Accademia Nationale de Lincei
- Washington Academy of Sciences
- Member, Sigma Xi and Phi Beta Kappa
- Fellow of the AAAS and the American Physical Society
- President, International Sakharov Committee, 1985-88
- Member of Awards Council, Am. Acad. of Achievement, 1980-2000.
- Member of Board, Adventures of the Mind, 2001-
- Current Member of Board of Directors, Nomination Committee, Audit Committee: GSES, Inc.
- Expert witness patent disputes. Agent: Rubin-Anders Scientific.
- Former Member of Board of Directors: General Physics Inc.; Calcol Inc.; Duratek Inc.; GP Strategies Inc.; Interferon Sciences Inc.; National Patent.
- Scientific Advisory Board: Redstone Inc. and formerly, Millenium Cell Inc.
- Honorary Member, International Raoul Wallenberg Foundation.
- Honorary Member, Angelo Roncalli Intern'l Committee.
- Member, Scientific Committee of the Ettore Majorana Foundation and Centre for Scientific Culture, 2006-2008.
- President, Steering Committee, Campus of Excellence 2007-

Advisory Committees (at various times, * indicates continuing))

- Member, Board of Trustees, Boston Museum of Science
- Member, Board of Trustees, Technion University
- Cambridge Electron Accelerator
- Laboratory of Nuclear Studies (MIT)
- Physics Department, Brookhaven National Laboratory
- Science Policy Committee, CERN (2 terms)
- Harvard Science Core Subcommittee
- DoE High-Energy Advisory Committee
- Council Member, American Academy of Achievement
- Scientific Advisor, Millennium Cell Inc., Rubin Scientific Group, Redst one Scientific Inc., University of the Middle East.

Editorial Boards

- IJTP; Nuclear Physics B; Journal of Mathematical Physics
- Reviewer, Math. Reviews
- *Sponsor of the Federation of American Scientists
- *Sponsor of the Bulletin of the Atomic Scientist
- Founding Editor, Quantum Magazine
- *Member of Jury, Premio Rey Jaime I (prize for innovation)
- *Co-Editor, Young Scientist, a webzine for HS students

Honors

- J. R. Oppenheimer Prize, 1976
- George Ledlie Prize, Harvard, 1978
- Nobel Prize in Physics, 1979
- Castiglione di Sicilia Prize, 1983

- Richtmyer Lecture Award, Amer. Assn. Physics Teachers, 1994
- Erice Science for Peace Prize, 1991
- Governor's Medal, Gifu Prefecture, 1998
- Japan Society for the Promotion of Science Award, 1999

Books: Authored or Edited (Partial list)

- Interactions (with Ben Bova), Warner Publishing, 1988 [also translated & published into Japanese, Catalan, and (in part), Italian.]
- Interacciones (Tuquets, 1995, Madrid) [Spanish].
- The Charm of Physics, AIP, 1990 [also translated and published into French and Russian].
- El Encantado de la Fisica (Tuquets, 1995, Madrid) [Spanish].
- From Alchemy to Quarks, Brooks/Cole, 1993.
- Book Chapter: The Structure of Matter & the Origin of the Universe, in "La Energia en sus Claves" (in English & Spanish) (Iberola, 2005, Madrid) pp. 20-80.
- Book Chapter: Wie lange dreht sich die Erde noch? in Kinder Fragen, ed. B. Stiekel (Heyne Verlag, Munich, 2001) pp 186-196: also Suddeutsche Zeitung Magazine 16.6.2000, pp. 40-42.
- Book Chapter: "How much longer will the earth keep turning?" in 'Nobel Book of Answers', ed. B. Stiekel (Atheneum Childrens Books, 2003, NY) pp. 243-253.
- Book Chapter: "Too huge for the atom..." in Mind, Lige & the Universe, ed. L. Margulis & E. Punset (Chelsea-Green, 2007, White River Junction, VT).
- First Workshop on Grand Unification, Durham, N.H., P.H. Frampton, S.L. Glashow, and A. Yildiz eds., (Math-Sci Press, 1980, Brookline MA).
- Third Workshop on Grand Unification, Chapel Hill, N.C., eds. P.H. Frampton, H, Van Dam, and S.L. Glashow, eds.) (Birkhaeuser, 1982, Boston, MA).
- Forward to I Am Right; You Are Wrong, by Edward De Bono (Viking, 1991, New York), pp. xiv-xvii.

Publications

[1] Interpretation of the Be^9 (p, d) Reaction at Energies of 5 to 30 MeV (with W. Selove), Phys. Rev. 102, 200 (1956). and Phys. Rev. 102, 1689 (1956)..

[2] The Renormalizability of Vector Meson Interactions, Nucl. Phys. 10, 107 (1959)..

[3] Possible Determination of Hyperon Parities and Coupling Strengths (with S. Barshay), Phys. Rev. Lett. 2, 371 (1959). and Phys. Rev. Lett. 2, 437 (1959)..

[4] A New Model for Multiple Meson Production at High Energies (with W. Czyz and T. Ericson), Nucl. Phys. 13, 516 (1959)..

[5] μ-Meson Decay (with C. Fronsdall), Phys. Rev. Lett. 3, 570 (1959)..

[6] Resonant Scattering of Antineutrinos, Phys. Rev. 118, 316 (1960)..

[7] Multiple Production of Mesons in Pion-Nucleon Collisions (with W. Czyz), Nucl. Phys. 20, 309 (1960).

[8] Partial Symmetries of Weak Interactions, Nucl. Phys. 22, 579 (1961).

[9] Direct X Decay and Muonium-Antimuonium Transitions, Phys. Rev. Lett. 6, 196 (1961)..

[10] Electrodynamic Properties of Baryons in the Unitary Symmetry Scheme (with S. Coleman), Phys. Rev. Lett. 6, 423 (1961)..

[11] Muonium-Antimuonium Transitions, Nuovo Cimento 20 591 (1961).

[12] Gauge Theories of Vector Particles (with M. Gell-Mann), Ann. Phy. 15,437 (1961).

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[14] Is Isotopic Spin a Good Number for the New Isobars?, Phys. Rev. Lett. 7, 469 (1961)..

[15] The 27-Fold Way and Other Ways: Symmetries of Mesons — Baryon Resonances (with J. J. Sakurai), Nuovo Cimento 25 337 (1962).

[16] The $K^+ \to p^+ + e^+ + e^-$ Decay (with M. Baker), Nuovo Cimento 25 857 (1962).

[17] Decays of Very Unstable Particles, Phys. Lett. 2, 251 (1962).

[18] Chiral Symmetries (with S. Coleman), Ann. Phy. 17, 41 (1962).

[19] On the Ten-Fold Way (with J. J. Sakurai), Nuovo Cimento 26 622 (1962).

[20] Formal Similarities of Weak, Strong and Electromagnetic Interactions (with M. Baker), Nuovo Cimento 26 803 (1962).

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[27] Approaches to the Unitary Symmetry Model in Group Theoretical Concepts and Methods (Gordon and Breach, 1964) 277.

[28] Departures from the Eightfold Way in Symmetry Principles at High Energy, ed. B. Kursunoglu (Freeman and Co., 1964) pp 49-57.

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[30] Decay Modes of the W^- (with R. H. Socolow), Phys. Lett. 10,143 (1964)..

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[102] Molecular Charmonium: A New Spectroscopy? (with A. De R´ujula and H. Georgi), Phys. Rev. Lett. 38, 317 (1977)..

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Citations

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