

CURRICULUM VITAE

Luis Alvarez-Gaumé

DEGREES

Ph.D March/12/1981 State University of New York. Stony Brook N.Y. 11794 U.S.A. Advisor, Prof. D.Z. Freedman.

M.S. Tesina. June 1978, Universidad Autonoma de Madrid, Cantoblanco, Madrid 28049, Spain.

B.A. Licenciatura, June 1977 Universidad Autonoma de Madrid, Spain. Cantoblanco, Madrid 28049, Spain.

POSITIONS HELD

From September 2016, Director of the Simons Center for Geometry and Physics, SUNY at Stony Brook, New York.

June 1988- Senior Staff Member. Th. Division. CERN.

July 1986- Professor of Physics. Boston University.

Sabbatical leave at CERN 86-87 Fixed Term Staff.

June 1985-June 1986 Associate Prof. of Phys. Harvard University.

June 1983-June 1985 Assistant Prof. of Phys. Harvard University.

Sept 1981-June 1983 Junior Fellow, Harvard Society of Fellows.

Sept 1980-Sept 1981 Research Affiliate, MIT.

Sept 1978-Sept 1980 Graduate Student S.U.N.Y. at Stony Brook.

AWARDS

Elected Corresponding Member of the Spanish Royal Academy of Sciences, February 2003.

Humboldt Senior Research Award, April 2000.

Prize Javed Husain for Young Scientists , November 8/1989.

Alfred P. Sloan Foundation Fellow, June 85-88.

Junior Fellow, Harvard Society of Fellows. August 1981.

Outstanding Teaching Assistant Award, June 1981, SUNY at Stony Brook.

TEACHING EXPERIENCE

At Harvard University I taught graduate courses in Quantum Field Theory, Group Theory and Particle Physics, and an advanced topical course on Quantum Field Theory. At Boston University Quantum Field Theory, and graduate Classical Mechanics. As a graduate student Junior Quantum Mechanics and assisted in a Graduate Laboratory class for first year graduate students.

Ph.D. STUDENTS

S. Della Pietra, graduated June 86. Now at Renaissance.
V. Della Pietra, graduated June 87. Now at Renaissance.
A. Leclair, graduated June 87. Now at Cornell.
Ho Seong La, graduated April 89. Now at Vanderbilt.

At CERN no PhD's can be granted, hence although I had a number of students, their official advisors were in CERN member state universities. Those that did their thesis fully or in part with me are the following:

Tomas Ortín, Graduate 1990. Now IFT-UAM Madrid.
J.L.F. Barbón, graduating October 1992. Now IFT-UAM Madrid.
K. Becker and M. Becker. Graduated July 94. Now at Texas A&M.
Y. Lozano, graduate Nov 94, currently at Phys. Dept. Oviedo, Spain.
M.A. Vazquez-Mozo, graduate Nov. 94. Now at Salamanca U.
M. Mariño graduate Oct. 95. Now at Geneva U.
F. Zamora, graduate June 96. Left physics.
R. Zwicky, for ETH, Zurich graduate 2003. Now at Durham IPPP.
AliReza Tavanfar, graduate 08. Now at IIP Natal, Brazil.
Ehsan Hatefi, graduate 11. Now at Vienna Tech. U.

INVITED CONFERENCES AND LECTURE SERIES

I have lectured at schools like Les Houches, Cargese, Schladmig, ICTP, ENS Summer school, Benasque center for theoretical physics, EPFL Lausanne, etc and I have given seminars in many places in Europe, North and South America, and Asia. I have lectured at the CERN schools in particle physics, in Europe, Latin America, and Asia. These are introductory graduate lectures for experimentalists. The list below is not exhaustive.

Donostia Center for Nanotechnology and Condensed Matter Physics Symmetry breaking, in High and Low Energy Physics, Oct. 14.

International Symposium: The 50th Anniversary of the quark: The discovery of asymptotic freedom and the birth of Quantum Chromodynamics Madrid, Fundacion Areces, June 10.

Solvay Meeting Honouring Lars Brink in his 70th birthday. Presentation on the challenges in Cosmology and High Energy Physics. Pannel discussion. Brussels May 14, 2014.

Colloquium Paco Yndurain, Madrid UAM. Challenges in Fundamental Physics Feb. 12, 2014

Portuguese graduate school. Lectures on Naturalness in Physics and Particle Physics. Braga, Portugal. Jan 20, 2014.

The Origin of Mass. Royal Society Meeting honouring Higgs and Kibble. The Royal Society Jan 12, 2014.

Lectures at CLASHEP 2013, Arequipa, Peru, March 6-13. Lectures on QFT and the Standard Model.

2nd Russian-Spanish Congress on High Energy Physics: Peak Theory and Non-gaussianities. Nov. 2013 LMU Munich. Graduate lectures on QFT January 9-20 2012

La Fisica Cuantica del Universo. Curso Magistral en la Universidad Internacional Menendez Pelayo. August 26-30, 2002.

Nordic School of High Energy Physics. Helsinki, May 02. Noncommutative Field Theories and Experimental Prospects.

Lectures on Topics in NC Field Theory. I. Henry Poincare, Paris, Jan. 02.
 Seminar in DESY: Update on Noncommutative Field Theory. Nov. 01
 Introduction to Noncommutative Field Theory. Sep. 01, Corfu Network Conference.
 Lectures on CP Violation. U.A.M. Madrid. May 00.
 Troisieme Cycle de La Suisse Romande. Lectures in the Fall of 1999 of AdS/CFT correspondence.
 Lecture at the Institut des Studis Catalans, Nov. 98. Topics in Modern String Theory.
 Schladmig Lectures (March 1998) on Non-perturbative Aspects of Supersymmetric Field Theories.
 Lectures at the Graduate Workshop. Heidelberg, Oct. 97.
 Closing Lecture at the Benasque Center for Physics Workshop on Condensed Matter and High Energy Physics. July 97.
 Director of Summer Course on "Recent Developments on the Theory of Fields and Strings". EL Escorial, July 97. Summer Course Programme of the Universidad Complutense de Madrid.
 Lectures at the Vanderbilt Meeting on High Energy Physics, Theory and Experiment. April 97.
 Lectures at La Plata: Triangular Meeting CERN-La Plata- Santiago de Compostela. March 97.
 Invited Lectures at Tokyo, Osaka, KEK and Kyoto. Feb. 97.
 S-Duality Workshop CERN June 96
 Invited Lecture at Saclay Meeting in memory of C. Itzykson, June 96.
 Invited Iberdrola Professor, Universidad Autonoma de Madrid. April-June 1996.
 S-Duality Workshop CERN Dec 95.
 Middle Eastern Meeting at Dahab. Nov. 95.
 Seventh Regional Meeting. Caspian Sea, Iran, Oct. 1995
 Scientific Organizer, Benasque Center for Physics. July 9-29, Benasque, Spain.
 Lecturer at the Trieste Summer School on Theoretical High Energy Physics. June 22-29.
 Invited Speaker Trieste Meeting on S-Duality. June 4-10. Trieste.
 Invited Lecturer, International Meeting In High Energy Physics, Comillas, Spain, May 1995.
 Invited participant at the Ecole Normale Workshop on Black Holes. Nov. 17,18 1994.
 Academic Training Programme Lecturer at CERN Oct. 94. Topic: Introduction to Quantum Field Theory.
 Invited Speaker "XXV Year of G.I.F.T." Zaragoza (Spain), Sept. 94. Lecturer at the Trieste Spring School on String Theory and related Topics. Dijkgraaf et al Editors. April 94. To appear in World Scientific.
 Invited Speakder, Tata Colloquium in Fundamental Problems on Theoretical Physics. Bombay, Jan 94.
 Biannual Meeting of The Spanish Physical Society. Sept. 1993.
 Meeting on Fundamental Problems in Quantum Mechanics. Oviedo, Sept. 1993.
 Guest Scientists. ICTP. July 1993.
 Andrejewski Lectures. Von Humbolt University. Berlin, June 1993.
 Troisieme Cycle de la Suisse Romande. Topics in Black Hole Physics. May-June 1993.
 Plenary Speaker, Rochester Conference. Dallas, Aug.1992.
 Les Houches Lecturer, July 1992.
 Group Theoretical Methods in Physics, Salamanca, July 1992.
 Trieste Spring School, 1992.
 Trieste Spring School, 1991.
 TROISIEME CYCLE DE LA SUISSE ROMANDE.Hiver 1990. Two-Dimensional Gravity, Statistical Mechanics and String Theory.
 ICTP, Trieste, Feb. 1990
 European Physical Society Meeting, Sep 6-13, Madrid 1989
 Summer School ICTP, July 1989
 Dublin School of Theoretical Physics , 21-28 May 1989
 Cambridge (U.K) 25-28, 1989
 Latin American School of Physics, Bariloche , Jan 1989
 Royal Society Meeting , Dec 1988
 CIME Lectures, July 1988
 Nato School on Mathematical Physics, Montreal , June 1988
 Spring School ICTP , April 1987
 Consener's House Meeting on Superstrings, Abingdon, Nov 1986
 Invited Lecturer at I.H.E.S., Paris, Nov 1986.
 Invited Lechrer ,Dubna and ITEP , Sept.1986.
 Erice School on the Superworld, August 1986.

Internacional Conference in Mathematical Physics, Marseille ,July1986.
 II Nobel School on Supergravity and Superstrings, Marstrand, 1986.
 Trieste Spring School April 1986.
 Karpacz Winter School, Karpacz , Poland, Feb, 1986.
 Visiting Lecturer at Caltech's Physics Department ,Jan 1986.
 Santa Fe Institute Meeting on Superstrings, Santa Fe, Nov. 1985.
 Ecole Normale Superieure Workshop, Aug, 85. Erice School on Mathematical Physics, Erice,July 1985.
 Cambrigde School on Supergravity and Superstrings, July , 1985.
 John Hopkins Workshop in High Energy Physics, Florence, 85.
 European Physical Society Meeting, Bari,July 26-31, 1985.
 Niels Bohr Centenial. Copenhagen, May, 1985.
 Meeting on "Anomalies, Geometry and Strings", Argonne, March 1985.
 American Physical Society Meeting ,Santa Fe, Nov, 1985.
 Nato School on Supersymetry. Boon, August, 1984.
 Ecole Normale Superieure Summer Workshop.
 Visiting Professor: ZIF (Center for International Research),Univ. Bielefeld. June 1-July 15 1984.
 Nato School on "Progress in Quantum Field Theory and Statistical Mechanics" Cargese (Corsica), Sept. 1983.
 International Conference in Mathematical Physics,Boulder, Augus1983. Aspen Center for Theoretical Physics, July 1982.

INVITED LECTURES

I have given lectures in several universities and laboratories, a partial list follows :

Harvard	Stony Brook	Enrico Fermi Inst.
Princeton	Syracuse	Brown
M.I.T.	Charlottesville	Caltech
Boston University	Chapel Hill	Brandeis
Gainnesville	S.L.A.C.	Cornell
Penn. University	Stanford	Rockefeller Univ.
Fermilab	CERN	Oxford
IHES	Cambridge DAMTP	
ENS Paris	Orsay	Niels Bohr Inst.
Bonn University	Lovaine La Neuve	Barcelona
Yale	Zurich	Saclay
Trieste	Munich (Max.Plank.),	U. Geneve
U.S. deCompostela	U. Berna	Roma (La Sapienza)
Florence	Marseille	

MISCELLANEOUS

I have been for nine years the deputy director of the Department of Theoretical Physics at CERN, and six years its director (Jan. 2015-Jan 2012). I am now the director of the Academic Training Committee that organises mini-graduate courses at CERN for physicists and engineers.

I have been member of the Spanish Comision Asesora for High Energy Physics starting 1993.

Member of the External Committee of the Boboliubov Laboratory of Theoretical Physics (Dubna) since Dec 1993 until 2000.

Member of the External Comittees of LAPP, Annecy, Ecole Normale Superieure (Paris), CEA (Saclay), Universite Pierre et Marie Curie (Paris VI), Ecole Polytechnique (Paris) and IHES (Paris).

Currently I am in the advisory board of the AEI in Golm, Berlin, on the advisory board of the Center for Theoretical Sciences, ETH, Zürich, and also in the advisory board of the Center for Theoretical Physics at the LMU in Munchen.

I have been in the editorial board of "Communications in Mathematical Physics" and "Classical and Quantum Gravity". I belonged to the Editorial Board of the Journal of Physics A until Jan 94, From June 1993, Editor of Int. J. Mod. Phys. A. I was editor of Phys. Lett B since january 94 until 2015.

I am also a regular referee for the following publications :

Nuclear Physics B	Physical Review D	JHEP
Phys Rev Letters	J. of Physics A	Mod. Phys. Lett
Clas.and Q.Gravity.	Lett.Math Physics	Comm. Math. Phys