

## CURRICULUM VITAE

**Name:** Francesco Toppan.

**Nationality:** Italian.

**Languages:**

Fluent (currently written and spoken,  
written and oral understanding):  
English, French, Italian and Portuguese.  
Practical knowledge: German and Russian.  
Spanish understood (written and oral)  
Rudiments of Japanese.

**Area of research:**

ELEMENTARY PARTICLE PHYSICS and  
MATHEMATICAL PHYSICS:

Integrable models.  
Braid Group Theory.  
Conformal Field Theories.  
Riemann Surfaces.  
Superstring Theories.  
SuperYang-Mills and Supergravity Theories.  
Batalin-Vilkovisky Quantization.  
Anomalies.

**Education:**

Ph. D. Diploma in Elementary Particle Physics,  
December 1989  
Int. School for Adv. Studies (ISAS), Trieste, Italy.  
Dissertation: Conformal Field Theories in Higher Genus Riemann Surfaces.  
Advisor: Prof. L. Bonora.

Magister Philosophiae in Elementary Particle Physics,  
30/30, October 1987  
ISAS, Trieste, Italy.  
Dissertation: Conformal Anomaly in String Theories.  
Advisor: Prof. R. Iengo.

M.S. (Italian Laurea) in Physics  
110/110 cum laude, June 1985  
University of Padova, Italy.  
Dissertation: Anomalies in Supersymmetric Theories.  
Advisor: Prof. M. Tonin.

Bachelor (Maturita' Scientifica)  
60/60, July 1978.  
Liceo Scientifico di Pordenone, Italy.

**Actual Professional Position:**

From October 1999,  
Visiting Researcher (CNPq contract),  
CBPF - DCP,  
Rua Dr. Xavier Sigaud 150, Urca,  
cep 22290-180, Rio de Janeiro (RJ) - Brazil.

**Previous Professional Positions:**

February 1998 - September 1999,  
Visiting Professor,  
Universidade Federal do Espirito Santo,  
CCE - Dep. de Fisica,  
Goiabeiras, 29060-900  
Vitoria (ES) - Brazil.

April 1<sup>st</sup> 1997 - January 31 1998,

Visiting scientist (JSPS - contract),  
Physics Department, Shizuoka University,  
836 Oya, Shizuoka-shi, 422 Japan.

October 1<sup>st</sup> 1994 - March 31 1996,  
Postdoctoral researcher at Dip. di Fisica  
Università di Padova, Italy.

October 1<sup>st</sup> 1992 - September 30 1994,  
Postdoctoral researcher at ENSLAPP,  
Ecole Normale Supérieure de Lyon, France.

June 1<sup>st</sup> -September 30 1992,  
Postdoctoral researcher at Physik. Inst.  
Universität Bonn, Germany. DFG contract.

November 1<sup>st</sup> 1991-May 31 1992,  
Postdoctoral researcher at Fachber. Mathematik.  
Universität Frankfurt a. M., Germany. DFG contract.

January 1<sup>st</sup> 1990-October 31 1991,  
Postdoctoral researcher at LPTHE-Tour 16.  
Universite' Pierre et Marie Curie, Paris VI, France.  
Della Riccia Fellowship.

October 1985-December 1989,  
PhD student at ISAS-Trieste, Italy.  
Italian State Fellowship.

1979-1985,  
student at University of Padova, Italy.

**Scientific collaborations:**

From February 1993 an ongoing scientific collaboration  
with the Bogoljubov Theoretical Laboratory,  
Joint Institute for Nuclear Research (JINR), Dubna - Russia.

Regular scientific contacts with:

University of Paris VI, ENS de Lyon, University of Padova,  
SISSA-ISAS (Trieste), Italy.

**Lectures delivered for Post-doc programs  
and Summer Schools:**

on Conformal Field Theories,  
UCP, Petropolis (RJ), Brazil, August 1990,  
(The Lecture Notes are available as UCP publication).

on the SuperLiouville Theory,  
Institute Henri Poincaré, Paris, France, 1991.

on the Classification of Integrable Hierarchies.  
JINR, Dubna, Russia, August 1997.

on Algebraic Structures in Fundamental Physics,  
Universidade Federal de Brasilia, January 1999.

**Courses delivered for PhD programs:**

on Integrable Models,  
University of Frankfurt a. M., Germany. 1991/92.

on Lie Algebras and Integrable Models.  
UFES - Vitoria (ES), Brazil, 1998.

on Symmetries and Dynamical Systems,  
CBPF - Rio de Janeiro (RJ), Brazil, 1998.

on String Theory,  
CBPF - Rio de Janeiro (RJ), Brazil, 1999.

**Courses delivered for Graduation programs:**

on Theoretical Physics,  
University of Padova, Italy, 1995/96.

on Statistical Physics,  
UFES - Vitoria (ES), Brazil, 1998.

on Classical Mechanics,  
UFES - Vitoria (ES), Brazil, 1998/1999.

### **PhD and Master Thesis' supervisor:**

Currently supervisor of three students:

- 1) Marcelo A. N. Botta Cautcheff, PhD student at CBPF.
- 2) Renato Santiago Silva, Master student at CBPF.
- 3) Moises P. Rojas Leyva, PhD student at CBPF (starting from March 2000).

### **Participation in PhD-thesis commissions:**

PhD defence thesis of Daniel G. Gomes Sasaki (CBPF), Feb. 2000.

### **Seminars and conferences given in:**

Argentina, Brazil, Czechoslovakia, France, Germany, Italy,  
Japan, Poland, Russia, Ukraine, USA, Yugoslavia.

### **Participation in schools and workshops**

(in most as a speaker, in some as *invited* speaker):

ICTP Spring and Summer Schools on Part. Phys. (1986/87/88/89).  
Summer School on Part. Phys., Erice 1987.  
Summer School TASI-88. Brown Univ., Providence RI, USA.  
Adriatic Meeting on Part. Phys., Dubrovnik (YU) 1989.  
ASI Meeting on Quantum Groups. Clausthal (D) 1989.

ENFPC Meeting at Caxambu (Brasil) 1990, 1991 and 1998.  
Cargese School on Int. Models, July 1991.  
Yang-Baxter in Paris, July 1992.  
QFT and integrable models. Como (I) 1992.  
First Caribbean School on Math. Physics. Guadeloupe 1993.  
Workshop on Integrable Models. Lyon, June 1993.  
Workshop on Integrable Models, Annecy, July 1993.  
Int. Conf. on Math. Phys. Rakhov (Ukr.), February 1994.  
Int. Conf. on Math. Phys. Alushta (Ukr.), June 1994.  
XIth Int. Conf. on Math. Phys., Paris, July 1994.  
Workshop on Super and Quantum Symmetries, Dubna (Russia), July 1994  
and September 1995.  
Summer School on Low dimensional Physics, Cargese (F), July 1995.  
Conference on Quantum Field Theory, Alushta (Ukr.), May 1996.  
Conference on Superstring and Duality, London, June 1996.  
Conference “Advanced QFT”, La Londe les Maures, (Fr.), Sept. 1996.  
“X Max Born Symposium”, Karpacz (Poland), Sept. 1996.  
“Semester on Integrability”, I.H.P. Paris (France), Dec. 1996.  
“Conference in Memory of D.V. Volkov”, Kharkov (Ukraine), Jan. 1997.  
“Workshop on Supersymmetry and Integrable Models”, U.I.C. (Chicago),  
June 1997.  
“Conference in Memory of V.I. Ogievetsky”, Dubna (Russia) July 1997.  
“Workshop on Super and Quantum Symmetries”, Dubna (Russia) June 1998.  
“School on Quantum Field theory”, UFFRJ (Brazil) August 1998.  
“Summer School on Physics”, Brasilia, January 1999.  
“Strings 99”, Potsdam (Germany), July 1999.  
“Workshop on Super and Quantum Symmetries”, Dubna (Russia), July 1999.  
“Workshop on Non Perturbative QFT”, Dubna (Russia), August 1999.  
“ Brazilian Conference on Particle Physics”, S. Lourenco (MG), October  
1999.  
School on Quantum Symmetries in Theor. and Math. Physics, Bariloche  
(Argentina) January 2000.

**Present address:**

Centro Brasileiro de Pesquisas Físicas,  
DCP - Rua Dr. Xavier Sigaud 150, Urca,

cep 22290-180 Rio de Janeiro (RJ), Brazil

Tel. (55)-xx-21-5867218.

Fax (55)-xx-21-5867400.

E-mail: [toppan@cbpf.br](mailto:toppan@cbpf.br)