

PREDRAG CVITANOVIĆ

Center for Nonlinear Science

Georgia Institute of Technology, Atlanta, GA 30332-0430

EDUCATION:

Ph.D. in Physics, Cornell University, 1973 (thesis advisor: T. Kinoshita)

B.S. in Physics, Massachusetts Institute of Technology, 1969

PROFESSIONAL EXPERIENCE:

2001–present G. Robinson Chair, Director, Center for Nonlinear Science, Georgia Tech

1997–2000 Professor, Northwestern University

1993–1998 Director, Center for Chaos and Turbulence Studies, Copenhagen

1986–1996 Carlsberg Foundation Research Professor, Niels Bohr Inst.

ACADEMIC HONORS:

The Danish Physical Society Research Prize in Physics for 1993–94

Member of the Royal Danish Academy of Sciences and Letters

Corresponding Member of the Croatian Academy of Arts and Sciences

SCIENTIFIC ADVISORY COMMITTEES:

Consultant on NIH proposal “Nonlinear Electrical Control of Epilepsy” by Professor David J. Mogul, Illinois Institute of Technology

Editor of Cambridge University Press Nonlinear Science Series

Honorary Editor (chief co-editor) *Nonlinearity* 1998-2003

Secretary of Dynamics Days, European STATPHYS 20 (Paris 1998)

Director, “Patterns, chaos and order” NATO ASI, 1990

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

Ph.D. students: P. Rosenqvist, V. Putkaradze, N. Søndergaard, Y. Lan, R. Paskauskas,
5 Ph.D. students, 2 M.Sci. students, and 6 postdoctoral fellows in all.

CURRENT RESEARCH SUPPORT:

Center for Nonlinear Science (Glen Robinson Chair)

OTHER COLLABORATORS (in past 48 months):

R. Artuso, I. Csabai, P. Dahlqvist, C.P. Dettmann, Á. Horváth, M.T. Levinsen,
R. Mainieri, D.J. Mogul, S.F. Nielsen, G. Palla, G. Simon, M.W. Slutzky, G. Tanner,
G. Vattay, A. Wirzba

SELECTED PUBLICATIONS:

1. “Sixth order magnetic moment of the electron” (with T. Kinoshita), *Phys. Rev.* **D10**, 4007 (1974)

2. “Group theory for Feynman diagrams in non-Abelian gauge theories”, *Phys. Rev.* **D14**, 1536 (1976)

3. *Universality in Chaos* (Adam Hilger, Bristol, 1984; second expanded edition 1989)

4. “Topological and metric properties of Hénon-type attractors” (with G.H. Gunaratne and I. Procaccia), *Phys. Rev.* **A 38**, 1503 (1988)

5. “Periodic orbit quantization of chaotic systems” (with B. Eckhardt), *Phys. Rev. Lett.* **63**, 823 (1989)

6. “Recycling of strange sets: I. cycle expansions” (with R. Artuso and E. Aurell), *Nonlinearity* **3**, 325 (1990)

7. “Chaotic Field Theory: a Sketch”, *Physica A* **288**, 61 (2000); nlin.CD/0001034

8. *Classical and Quantum Chaos - Periodic Orbit Theory*, (with R. Artuso, R. Mainieri, G. Tanner, G. Vattay and others), <http://www.nbi.dk/ChaosBook/>, advanced graduate textbook