

# Short curriculum of Giorgio Turchetti

**Career.** Degree in Physics at the University of Bologna in 1965. Positions at the University of Bologna: Lecturer, Associate Professor in 1983 and full Professor of Mathematical Physics from 1987 to 2012. After retirement on 2013 until 2022: lecturer on *Models and Numerical Methods* for the Master in Physics at the University of Bologna and the PhD on Climate Change at the University Ca' Foscari of Venice.

**Coordination activity.** Coordinator of Graduate Studies in Physics in Bologna, of the theoretical group of INFN in Bologna, of a European Network in nonlinear beam dynamics, director of the Centre for complex systems L. Galvani.

**Scientific activity.** The scientific activity was partly carried out abroad (CEA at Saclay, Western Ontario University, Georgia-Tech, PUC in Rio de Janeiro, CERN, GSI, Brown University): it was devoted initially to the problem of nuclear forces in field theory and later to classical nonlinear dynamics and its applications to beam physics. One of the major achievements was the theory of non linear of betatronic motion based on Birkoff normal forms. Recent research was devoted to complex systems and to the linear response theory in dynamical systems.

**Conferences.** Organization of several international conferences and workshops on nonlinear dynamics and complex systems.

**Publications** Over 250 of which at least 200 appeared in international refereed journals. Editor of 6 books and author of the book *Dinamica Classica dei Sistemi Fisici* (Zanichelli 1998).

**Teaching activity.** Courses of Analytical Mechanics, Continuum and Statistical Mechanics, Models and Numerical Methods in Physics. Supervisor of 20 doctoral thesis beyond and many master thesis.

**Contacts**