

SEMINARIO DEL GIOVEDÌ CETEMPS

La difficile arte di costruire modelli

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(Il seminario sarà anche trasmesso in diretta sul canale YouTube di CETEMPS)

Sommario. A partire da un'analisi di modelli importanti, quali quelli di Lotka-Volterra e Lorenz, saranno discusse le difficoltà che si incontrano nella costruzione di modelli nel caso non si disponga di una struttura di riferimento precisa e/o siano coinvolti fenomeni con molti tempi caratteristici. In particolare, sarà trattato il problema della costruzione di modelli usando solo da serie storiche.

Biografia. Angelo Vulpiani was born in Borgorose (Rieti) 08/08/1954, graduated from Rome University in 1977, the supervisor being Gianni Jona-Lasinio. He has been CNR Fellow (1978-1981), Assistant Professor at Rome University (1981-1988), Associate Professor at University of L'Aquila (1988-1991) and then at the University of Rome (1991-2000). At the present he is Full Professor of Theoretical Physics at the Physics Department of the University of Rome "Sapienza", and is a Fellow of the Institute of Physics. He was a visiting fellow in several research institutes and universities in France, Belgium, Sweden, Denmark, and United States. His scientific interests include chaos and complexity in dynamical systems, statistical mechanics of non-equilibrium and disordered systems, developed turbulence, phenomena of transport and diffusion and foundations of physics. He has written about 250 scientific papers on international journals and nine books, including: T. Bohr, M.H. Jensen, G. Paladin and A. Vulpiani *Dynamical Systems Approach to Turbulence* (Cambridge University Press, 1998); P. Castiglione, M. Falcioni, A. Lesne and A. Vulpiani *Chaos and Coarse Graining in Statistical Physics* (Cambridge University Press, 2008); S. Chibbaro, L. Rondoni and A. Vulpiani *Reductionism, Emergence and Levels of Reality* (Springer-Verlag, 2014).