

Born in Venice on April 18, 1939. *Laurea* degree in Physics in November 1961. *Perfezionamento* degree in Physics in July 1964. Supervisors N. Dallaporta, R.R. Gatto. Since 1964, he successively covered positions of Assistant Professor, Lecturer, and Associate Professor of Theoretical Physics (for students of Astronomy) in Padua. Chair of Theoretical Physics at Perugia University in 1984, then chairs of Astrophysics at Milan State University in 1988 and Milan Bicocca University since 1999. Meanwhile also Lecturer of Cosmology at SISSA (Trieste) since its foundation and until 1985. Retired from chair position on 2010. Since then guest of the Physics Department of Trieste University and associate researcher of INAF, Trieste Observatory.

Researcher of INFN since 1962, at level R5 since 1965, and then until 2012. Researcher of INAF since 1990 and until now. *Libero Docente* of Theoretical Physics since 1970.

Between 1969 and 1988, various leaves of absence to do research at the Institute of (Theoretical) Astronomy of Cambridge (UK), for a total of ~ 3 years. Shorter periods spent at ESO (Garching), UCSC (Santa Cruz, California) and other international Institutions.

Author of ~ 200 scientific papers and of 4 books, with ~ 1500 citations. Collaborations with various researchers as N. Dallaporta, N.J. Rees, F. Lucchin, S. Matarrese, J. Primack, A. Klypin, S. Borgani, A.V. Macciò and many others.

Among his students: F. Lucchin, S. Matarrese, S. Borgani, E. Pierpaoli, A.V. Macciò.

Early research in particle physics. Then on elementary process in the astrophysical context and in Cosmology. Author of first papers on polarization in inverse Compton Scattering, pair production in astrophysical sources, transparency of the Universe to very high energy particles, quark-hadron transition in cosmology. Authors of one of the 3 papers independently performing the first estimates on $\delta T/T$ in baryonic models and in models with Dark Matter. First evaluation of transfer function and simulations in mixed Dark Matter models. Main present topic of research is Cosmology.