

Curriculum Vitae Alessandro Cardinali

Dr Alessandro Cardinali is “Director of Research” at the “Italian National Agency for New Technologies, Energy and sustainable economic development” (ENEA) in the Fusion and Plasma Physics Department (Theory and Modeling) since 1983. In 1978 he obtained a degree in physics at the “Milan University”. Successively from 1979 to 1983 worked at the *Centre Etude Atomic in (Grenoble) in the Plasma Physics Division and Institut Nationale Polytechnique de Grenoble (INPG)*. He is author of 120 articles in International Journals and more than 350 contributions to International Conferences (*h-index 29*). It has been invited speaker in the main national and international conferences (*Congresso Nazionale della Societa Italiana di Fisica; European Fusion Theory Conference, RF Topical Conference; Joint Varenna-Lausanne International Conference on Theory of Fusion Plasmas; etc.*). His field of expertise is theoretical studies on propagation and absorption of electromagnetic waves in linear and nonlinear regimes, plasma instabilities, Fokker-Planck calculations and codes, Vlasov codes, Hamiltonian description of Wave Propagation, Symplectic Numerical Integration of Hamiltonian systems, Thermonuclear Instability in Laboratory and Astrophysical Plasmas. During his career he has been host researcher of the *Max Planck Institute (Garching bei Munchen)*, *Ecole Polytechnique Federale (Lausanne)*, *Princeton University*, *Hydro-Québec’s Research Institute (IREQ) (Varenne, Canada)*, *Joint European Torus by UK Atomic Energy Authority (Culham, Oxford, GB)*. He is fellow of the “*Gruppo Nazionale di Fisica-Matematica*” of the INDAM (Istituto Nazionale di Alta Matematica Francesco Severi), and member of the American Physical Society and Societa Italiana di Fisica.