Short CV

Name	Efthymia Meletlidou
Position	Associate Professor
Studies	Physics Degree, dprt. of Physics, Arsistotle university of Thessaloniki,1990 M.Sc., University of London,1991 Ph.D. dprt. of Physics, Aristotle University of Thessaloniki, 1996
Scientific expertise	Integrability and nonintegrability in Hamiltonian sytems, Painleve test, continuation of periodic orbits, Lie series, Melnikov Theory, Ziglins theorem, Adiabatic sytems, Solitary wave solutions and applications in Physics, galactic dynamics. Epidemiology problems. Applications in the transfer of energy in nonlinear systems. Symmetries in orbits of particles in electromagnetic fields
Research activities	Human Capital and Mobility CHRX-CT93-0330/DG 'Order and Chaos in Conservative Dynamical Systems' (1994-1996, coordinator J.Hadjidemetriou) ΠΕΝΕΔ-95 No 1857 titled «Order and chaos in conservative dynamical systems with applications in Astronomy, Celestial Mechanics and Atomic Physics (coordinatos C.Varvoglis) TMR FMRX-CT-960062 titled "Spatio-temporal instabilities in deformation and fracture mechanics, materials science and nonlinear physics aspects" (coordinator E.Aifantis) 2003-2018 Assistant Professor, Faculty of Physics. Aristotle University of Thessaloniki Coordinator in the scientific program Pythagoras No. 21879, 2004-2007 «Dynamical Systems, integrability and non integrability» Coordinator in the scientific program 2007-2009 Collaborative Linkage Grant N.A.T.O. «Forecasting the Effect of Infectious Disease Outbreaks» CLG 982791. 2018-today Associate Professor, Faculty of Physics, Aristotle University of Thessaloniki

Five most important publications	E.Meletlidou & S.Ichtiaroglou: 1994, 'On the number of isolating integrals in perturbed Hamiltonian systems with n≥3 degrees of freedom', J. Phys. A: Math. Gen. **27**, 3919-3926.
	K.Wodnar, S.Ichtiaroglou & E.Meletlidou: 1999, 'Non-integrability and continuation of fixed points of 2n-dimensional perturbed twist maps', Physica D **128**, 70-86.
	I.I.Maglevany, E.Meletlidou, G.Stagika: 2011, "Numerical investigation of bifurcations of equilibria and Hopf bifurcations in disease transmission models", Communications in Nonlinear Science and Numerical Simulations, Vol **16**, No 1, 284-295.
	Maaita J.O.,Meletlidou E., Vakakis A.F., Rothos V.,2013, "The effect of slow flow dynamics on the Oscillations of a Singular Damped System with an Essentially Nonlinear Attachment" , Journal of Applied Nonlinear Dynamics, **2**(4) 315-328.
	N. Kallinikos and E. Meletlidou, 2013, "Symmetries of charged particle motion under time independent electromagnetic fields", J.Phys.A:Math.Theor. **46,** 305202