Theophanes GRAMMENOS

Position: Ass. Professor of Applied Mathematics

Undergraduate Courses:
Linear Algebra & Calculus I
Calculus II
Geometry
Ordinary Differential Equations
Partial Differential Equations & Complex Variables

Graduate Courses:
Applied Mathematics

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Education:
Diploma/M.Sc. (Physik-Diplom) in Theoretical Physics, Leibniz Universität Hannover, Germany (1984)
Post-graduate courses in Theoretical Physics, Leibniz Universität Hannover, Germany (1988)
Ph.D in Mathematical Physics, University of Athens, Greece (1994)

Professional Organizations Membership:
Deutsche Physikalische Gesellschaft (DPG)
American Mathematical Society (AMS)
American Physical Society (APS)
Hellenic Society on Relativity, Gravitation and Cosmology (HSRGC)

Recent Publications:
1. *Energy of a regular black hole solution in Einstein-nonlinear electrodynamics*, I.Radinschi, F.Rahaman, Th.Grammenos, A.Spanou, S.Islam, *Mathematical Physics*, vol. 2015 (2015), Article ID 530281, pp.1-12
2. *Mini-superspace canonical quantization of the Reissner-Nordstrøm black hole via conditional symmetries*, Th.Christodoulakis, N.Dimakis, P.A.Terzis, B.Vakili, E.Melas, Th.Grammenos, *Physical Review* D89(4) (2014) 044031, 1-15
3. *Fluid ordering and density variation in nanochannel flows: a quasi-continuum theory*, Th.Grammenos, A.E.Giannakopoulos, *Mathematical Methods in the Applied Sciences* 37(2) (2014) 200-206
4. *Distribution of energy-momentum in a Schwarzschild–Quintessence spacetime geometry*, I.Radinschi, Th.Grammenos, A.Spanou, *Intern. Journal of Theoretical Physics* 52(11) (2013) 4100-4109
5. *Conditional symmetries and the canonical quantization of constrained mini-superspace actions: the Schwarzschild case*, Th.Christodoulakis, N.Dimakis, P.A.Terzis, G.Doulis, Th.Grammenos, E.Melas, A.Spanou, *Journal of Geometry and Physics* 71 (2013) 127-138
6. *Locally homogeneous spaces, induced Killing vector fields, and applications to Bianchi prototypes*, G.O.Papadopoulos, Th.Grammenos, *Journal of Mathematical Physics* 53 (2012) 072502, 1-22

Research Interests:
Classical Field Theory
General Relativity Theory
Mathematical Physics
Theoretical Astrophysics
Differential Equations
Differential Geometry/Topology