# Elias Koorambas



Theoretical Physics

## Research Experience

*Alternative theories of gravity, gauge theories of gravity, Symmetries in particle physics and Unified theories, Brane and Extra Dimensions in particle physics and cosmology, dark matter and dark energy*

## Education

1998-2003                                Joint Honours degree in Maths-Physics

## Scientific Memberships

Associated member of European Physics Society (2007)

Associated member of Institute of Physics (2003)

# Publications

**Quark–Quark of Swap Electric Charge Bound State** E.Koorambas, *International Journal of High Energy Physics* 2:  4-1. (2015)

*The Physics of Mass Gap Problem in the General Field Theory Framework*  E Koorambas, *International Journal of High Energy Physics* 2:  (4-1).104-111 (2015).

*Weak Space-Time Curvature Effects for Lepton Electric Charge Swap at High Energy Scale* E Koorambas, *In: Horizons in World Physics* Chp.6 Edited by: Albert Reimer.   137-155 (2015)  NY  USA: Nova  Science  Publishers 285: Horizons  in World Physics  isbn:978-1-63482-826-0.

*Cosmic Acceleration for Harmonic Gravitational Connections* E Koorambas, G Resconi, *In: Advances in Dark Energy Research* Edited by: Miranda L. Ortiz.75-90 (2015)  Nova Science Publishers isbn:978-1-63483-090-4.

*Graviton wave mechanics: A De Broglie-Bohm approach for quantum gauge theory of gravity* E. Koorambas, Quantum Matter **3**, 3 (2014) 215-218. *A special issue Quantum Matter and the geometry of space*, Guest Editor Davide Fiscaletti

*Vector gauge boson dark matter for the SU(N) gauge group model* E. Koorambas, Int. J. Theor. Phys., **52** ,12 (2013) 4374–4388

*Lepton electric charge swap at the 10 TeV energy scale* E. Koorambas, Commun. Theor. Phys **60**, 5 (2013) 561–571

*Recent Developments in Bosons Research*  E. Koorambas, Chapter 2, ed.Ignace Tremblay, pp. 57-82, (Nova Science Publishers, Inc., New York, 2013- May).

*Cosmic acceleration in a model of interacting massive gravitons* E. Koorambas, Int. J. Theor. Phys. **52**, 7 (2013) 2235-2244

*Tevatron Wij anomaly for a model with two different mechanisms for mass generation of gauge fields* E. Koorambas., Int. J. Theor. Phys. **51**, 10 (2012) 3127-3140

*On the geometric unification of gravity and dark energy* E. Koorambas, Int. J. Theor. Phys. **51**, 9 (2012) 2863-2870

*The interaction between massive and massless gravitons by the perturbing topological field theory*  E. Koorambas, Commun.  Theor. Phys **57**, 2 (2012) 241-244

**Wilson and Polyakov loops of gravitational gauge fields in Rindler space**  E Koorambas (2014) <hal-01056093> hep-th [Preprint Paper]

**The evolution process of Left - Right neutrinos' modeling population** E Koorambas (2014) <hal-01002944> hep-th [Preprint Paper]

**Can gravitons be effectively massive due to their zitterbewegung motion?**

E Koorambas (2014) <hal-00990723> hep-th [Preprint Paper]

**The new interpretation of arithmetic operation symbols** E Koorambas 2014. <hal-00956032> [Preprint Paper https://hal.archives-ouvertes.fr/INSMI INSMI Collections]

**Energy Harvesting with Piezoelectric Generators in the Athens, Greece Metro Network** E Koorambas, G Kakavas, G Lampousis, A Alambeis, A Aggelopoulos 2012.<hal-00760404> Gen-phys [Preprint, Working Paper] .

**Random Numbers Generated by Orbifold Fixed Points** E Koorambas 2011 vixra.1108.0015 hep-th [Preprint, Working Paper]

*Linking Extra Dimensions Looking Like Particles* E. Koorambas, Physics 2005-A century after Einstein Institute of Physics, **G2.23** (10-14 April 2005), page 25

*Unification of Gravity and Yang Mills Fields by Fuzzy String Model* E. Koorambas, Physics 2005-A century after Einstein Institute of Physics, **G2.24** (10-14 April 2005), page 25

*Seasonal Trent in Human Cabilobacteria* E. Koorambas**,** University of Aberdeen, United Kingdom, (May 2003)


# Pages

Elias Koorambas - Hal