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### **EDUCATION**

Ph.D. Elementary Particles, *Title of thesis :Exact solutions of the Einstein equations and the role of the physical parameters in active mass*, University of Tehran, Tehran, Iran.

M.Sc. in Theoretical Physics , *Title of thesis : Neutrino oscillation in solar matter and neutrino magnetic momentspace time with torsion* , University of Tehran, Tehran, Iran .

B.Sc. Educational Physics ,University of Kashan, Kashan, Iran.

### **RESEARCH INTERESTS**

Exact solutions of the Einstein equations , Plasma physics in curved space time ,  
Neutrino oscillation , Dark matter and dark energy.

## PUBLICATIONS IN ISI JOURNALS

- 1- Morgan-Morgan-NUT disk space via the Ehlers transformation ( D. Momeni, M. Nouri-Zonoz, and **R. Ramazani-Arani**, Phys. Rev. D,2005)
- 2- Propagation of electromagnetic waves in the elliptical waveguides made of the materials with anisotropic Hermitian dielectric tensors(B. Jazi, A. Abdoli-Arani, Z. Rahmani, M. Monemzadeh, **R. Ramezani-Arani**, Taylor & Francis , Waves in Random and Complex Media,2010)
- 3- The dielectric tensor and field equations in the inhomogeneous cold collisionless magnetized drift plasmas with elliptical cross sections (B. Jazi, A. Abdoli-Arani, Z. Rahmani, **R. Ramezani-Arani**, M. Monemzadeh, Elsevier, Physics letters A, 2010)
- 4-Scattering from an elliptical cylinder plasma for the electromagnetic waves with the wavelength of much greater than the dimensions of the plasma cross section (A. Abdoli-Arani, **R.Ramezani-Arani**, B.Jazi , S.Golharani, Taylor & Francis , Waves in Random and Complex Media,2012)
- 5-Dielectric tensor elements for description of the waves in the inhomogeneous warm collisional rotating plasma spheroids (A. Abdoli-Arani, **R.Ramezani-Arani**, Taylor & Francis , Waves in Random and Complex Media,2012)
- 6-Generalized permittivity tensor for the description of waves in general relativistic plasma around a Schwarzschild black hole (**R.Ramezani-Arani** , A. Abdoli-Arani, H.Shokrgozar-Arani,Journal of Plasma Physics, Cambridge university Journal,2014)
- 7-Investigation of Plasma Waves Propagation around Traversable Wormhole's Throat(**R.Ramezani-Arani**,A.R.Mirzaee and A. Abdoli-Arani, Taylor & Francis , Waves in Random and Complex Media, 2014)
- 8-Plasma Waves Dispersion Relation at Near of the Cosmological Black Holes in an Expanding Universe Dominated by Dark Energy,( **R.Ramezani-Arani**,A.R.Mirzaee and A. Abdoli-Arani,Springer, International Journal of Theoretical Physics,2015)
- 9- MHD equations in the atmosphere of the stars,(H.Shokrgozar-Arani, S.Abarghouei Nejad, **R. Ramezani-Arani**, Taylor & Francis , Waves in Random and Complex Media, 2017)
- 10-Thermal stability of a special class of black holes solutions in  $F(R)$  gravity, (The European Physical Journal C ,S. H. Hendi, **R. Ramezani-Arani**, E. Rahimi,2019)

11- General Relativistic Thick Disks in the Accelerating Expanding Universe Dominated By Dark Energy(S. Doostali,A.R. Mirzaee,**R. Ramezani Arani**,S.Abarghouei Nejad, Brazilian Journal of Physics,2019)

12- Hamiltonian Embedding of Einstein – Hilbert Action in (1+1) Dimensions(Majid Monemzadeh, Vahid Nikoofard, **R. Ramezani Arani**,Mod. Phys . Lett.A,2011)

13-Three dimensional Lifshitz-like black hole in a special class of  $F(R)$  gravity (S.H. Hendi , **R. Ramezani-Arani** , E. Rahimi, Physics Letters B,2020)

14-Gravitational effects on quantum coherence in neutrino oscillation(M. M. Ettefaghi,R. Ramazani Arani,Z. S. Tabatabaei Lotfi, PHYSICAL REVIEW D,2022)

15-Plasma Waves Around Massive Stars in (3+1)-General Relativistic Magnetohydrodynamics(Hassan Shokrgozar Arani · Salman Abarghouei Nejad · Mahtab Talaei Faghloo · Reza Ramezani Arani, Brazilian Journal of Physics,2022)