

# Dr. Zeeshan Yousaf

HEC Approved PhD Supervisor

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## List of Journal Publications (Indexed by ISI-JCR)

- 2012 M. Sharif and **Z. Yousaf**: *Shear-free Spherically Symmetric Fluid Models*, Chin. Phys. Lett. **29**, 050403 (2012).
- 2012 M. Sharif and **Z. Yousaf**: *Expansion-free Cylindrically Symmetric Models*, Can. J. Phys. **90**, 865 (2012).
- 2012 M. Sharif and **Z. Yousaf**: *Evolution of Expansion-free Self-Gravitating Fluids and Plane Symmetry*, Int. J. Mod. Phys. **21**, 1250095 (2012).
- 2013 M. Sharif and **Z. Yousaf**: *Electromagnetic Field and Dynamical Instability Of Cylindrical Collapse in  $f(R)$  Gravity*, Mon. Not. R. Astron. Soc. **432**, 264 (2013).
- 2013 M. Sharif and **Z. Yousaf**: *Dynamical Instability of Charged Expansion-free Spherical Collapse in  $f(R)$  Gravity*, Phys. Rev. D **88**, 024020 (2013).
- 2013 M. Sharif and **Z. Yousaf**: *Stability of the Charged Spherical Dissipative Collapse in  $f(R)$  Gravity*, Mon. Not. R. Astron. Soc. **434**, 2529 (2013).
- 2013 M. Sharif and **Z. Yousaf**: *Effects of CDTT Model on the Spherical Collapse in Palatini  $f(R)$  Gravity*, Eur. Phys. J. C **73**, 2633 (2013).
- 2014 M. Sharif and **Z. Yousaf**: *Cylindrical Thin-shell Wormholes in  $f(R)$  Gravity*, Astrophys. Space Sci. **351**, 351 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Electromagnetic Field and Dynamical Instability Of Collapse with CDTT Model*, Astropart. Phys. **56**, 19 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Energy Density Inhomogeneities with Polynomial  $f(R)$  Cosmology*, Astrophys. Space Sci. **352**, 321 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Stability Analysis of Cylindrically Symmetric Self-Gravitating Systems in  $R + \epsilon R^2$  Gravity*, Mon. Not. R. Astron. Soc. **440**, 3479 (2014).

- 014 M. Sharif and **Z. Yousaf**: *Stability of a Class of Non-Static Axial Self-Gravitating Systems in  $f(R)$  Gravity*,  
Astrophys. Space Sci. **352**, 943 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Instability of Dissipative Restricted Non-Static Axial Collapse with Shear Viscosity in  $f(R)$  Gravity*,  
J. Cosmol. Astropart. Phys. **06**, 019 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Energy Density Inhomogeneities in Charged Radiating Stars with Generalized CDTT Model*,  
Astrophys. Space Sci. **354**, 431 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Dynamical Analysis of Self-Gravitating Stars in  $f(R, T)$  Gravity*,  
Astrophys. Space Sci. **354**, 471 (2014).
- 2014 M. Sharif and **Z. Yousaf**: *Dynamical Analysis of Radiating Spherical Collapse in Palatini  $f(R)$  Gravity*,  
Astrophys. Space Sci. **354**, 481 (2014).
- 2015 M. Sharif and **Z. Yousaf**: *Role of Adiabatic Index on the Evolution of Spherical Gravitational Collapse in Palatini  $f(R)$  Gravity*,  
Astrophys. Space Sci. **355**, 317 (2015).
- 2015 M. Sharif and **Z. Yousaf**: *Dynamics of Spherical Stars with Structure Scalars and  $R + \epsilon R^n$  Cosmology*,  
Can. J. Phys. **93**, 905 (2015).
- 2015 M. Sharif and **Z. Yousaf**: *Stability of Regular Energy Density in Palatini  $f(R)$  Gravity*,  
Eur. Phys. J. C, **75**, 58 (2015).
- 2015 M. Sharif and **Z. Yousaf**: *Dynamics of Relativistic Fluids with Structure Scalars and  $\epsilon R^2$  Cosmology*,  
Gen. Relativ. Gravit. **47**, 48 (2015).
- 2015 M. Sharif and **Z. Yousaf**: *Radiating Cylindrical Gravitational Collapse with Structure Scalars in  $f(R)$  Gravity*,  
Astrophys. Space Sci. **357**, 49 (2015).
- 2015 M. Sharif and **Z. Yousaf**: *Instability of Meridional Axial System in  $f(R)$  Gravity*,  
Eur. Phys. J. C, **75**, 194 (2015).
- 2016 M. Sharif and **Z. Yousaf**: *Charged Adiabatic LTB Gravitational Collapse in  $f(R)$  Gravity*,  
Int. J. Theor. Phys. **55**, 470 (2016).
- 2016 **Z. Yousaf**, and M.Z. Bhatti: *Electromagnetic Field and Cylindrical Compact Objects in Modified Gravity*,  
Mon. Not. R. Astron. Soc. **458**, 1785 (2016).
- 2016 **Z. Yousaf**, K. Bamba and M.Z. Bhatti: *Influence of Modification of Gravity on the Dynamics of Radiating Spherical Fluids*,

- Phys. Rev. D **93**, 064059 (2016).
- 2016 M.Z. Bhatti and **Z. Yousaf**: *Influence of Electric Charge and Modified Gravity on Density Irregularities*,  
Eur. Phys. J. C **76**, 219 (2016).
- 2016 **Z. Yousaf** and M.Z. Bhatti: *Cavity Evolution and Instability Constraints of Relativistic Interiors*,  
Eur. Phys. J. C **76**, 267 (2016).
- 2016 **Z. Yousaf**, K. Bamba and M.Z. Bhatti: *Causes of Irregular Energy Density in  $f(R,T)$  Gravity*,  
Phys. Rev. D **93**, 124048 (2016).
- 2017 M.Z. Bhatti and **Z. Yousaf**: *Dynamical Variables and Evolution of the Universe*,  
Int. J. Mod. Phys. **26**, 1750029 (2017).
- 2017 M. Z. Bhatti and **Z. Yousaf**: *Gravitational Collapse and Dark Universe with LTB Geometry*,  
Int. J. Mod. Phys. **26**, 1750045 (2017).
- 2017 **Z. Yousaf**, M.Z. Bhatti and Ume Farwa: *Stability of Compact Stars in  $\alpha R^2 + \beta(R_{\gamma\delta}T^{\gamma\delta})$  Gravity*,  
Mon. Not. R. Astron. Soc. **464**, 4509 (2017).
- 2017 **Z. Yousaf**, K. Bamba and M.Z. Bhatti: *Role of Tilted Congruence and  $f(R)$  Gravity On Regular Compact Objects*,  
Phys. Rev. D **95**, 024024 (2017).
- 2017 **Z. Yousaf**: *Relativistic Vacuum Core Models in a  $\Lambda$ -Dominated Era*,  
Eur. Phys. J. Plus **132**, 71 (2017).
- 2017 M.Z. Bhatti, **Z. Yousaf** and S. Hanif: *Stability of Anisotropic Compact Objects in  $f(T)$  Gravity*,  
Mod. Phys. Lett. A **32**, 1750042 (2017).
- 2017 **Z. Yousaf**, M. Z. Bhatti and A. Razaqat: *LTB Geometry with Tilted and Non-Tilted Congruences in  $f(R,T)$  Gravity*,  
Int. J. Mod. Phys. D **32**, 1750099 (2017).
- 2017 **Z. Yousaf**, M. Z. Bhatti and A. Razaqat: *Electromagnetic effects on the Evolution of LTB Geometry in Modified Gravity*,  
Astrophys. Space Sci. **362**, 68 (2017).
- 2017 M. Z. Bhatti, **Z. Yousaf** and S. Hanif: *Role of  $f(T)$  Gravity on the Evolution of Collapsing Stellar Model*  
Phys. Dark Universe **16**, 34 (2017).
- 2017 M. Z. Bhatti, **Z. Yousaf** and S. Hanif: *Gravitational Collapse in Generalized Teleparallel Gravity*  
Eur. Phys. J. Plus **132**, 230 (2017).

- 2017 **Z. Yousaf**, M. Ilyas and M. Z. Bhatti: *Static Spherical Wormhole Models in  $f(R, T)$  Gravity*,  
Eur. Phys. J. Plus **132**, 268 (2017).
- 2017 **Z. Yousaf**: *Stellar Filaments with Minkowskian Core in Einstein- $\Lambda$  Gravity*,  
Eur. Phys. J. Plus **132**, 276 (2017).
- 2017 **Z. Yousaf**, M.Z. Bhatti and Ume Farwa: *Role of  $f(R, T, R_{\gamma\delta} T^{\gamma\delta})$  Gravity on the Stability of Cylindrical Stellar Model*,  
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- 2017 **Z. Yousaf**, M.Z. Bhatti and Ume Farwa: *Stability Analysis of Stellar Radiating Filaments*,  
Class. Quantum Grav. **34**, 145002 (2017).
- 2017 **Z. Yousaf**, M. Z. Bhatti and A. Razaqat: *Evolution of Inhomogeneous LTB Geometry with Tilted Congruences and Modified Gravity*,  
Can. J. Phys. **95**, 1246 (2017).
- 2017 M. Z. Bhatti, **Z. Yousaf** and S. Ashraf: *Charged Black String Thin-shell Wormholes in Modified Gravity*,  
Ann. Phys. **383**, 439 (2017).
- 2017 K. Bamba, M. Ilyas, M. Z. Bhatti and **Z. Yousaf**: *Energy Conditions in Modified  $f(G)$  Gravity*,  
Gen. Relativ. Gravit. **49**, 112 (2017).
- 2017 **Z. Yousaf**, M. Ilyas and M. Z. Bhatti: *Influence of Modification of Gravity on Spherical Wormhole Models*,  
Mod. Phys. Lett. A **32**, 1750163 (2017).
- 2017 M. Z. Bhatti, **Z. Yousaf**, M. Ilyas: *Evolution of Compact Stars and Dark Dynamical Variables*,  
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- 2017 **Z. Yousaf**, M. Sharif, M. Ilyas, M. Z. Bhatti. *Influence of  $f(R)$  Models on the Existence of Anisotropic Self-Gravitating Systems*,  
Eur. Phys. J. C **691**, 77 (2017).
- 2017 M. Z. Bhatti and **Z. Yousaf**; *Stability of Anisotropic Stellar Filaments*,  
Ann. Phys. **387**, 253 (2017).
- 2017 M. Ilyas, **Z. Yousaf**, M. Z. Bhatti and B. Masud: *Existence of Relativistic Structures in Modified Gravity*,  
Astrophys. Space Sci. **362**, 237 (2017).
- 2018 M. Z. Bhatti, M. Sharif, **Z. Yousaf** and M. Ilyas: *Role of Gravity on the Evolution of Relativistic Stars*,  
Int. J. Mod. Phys. D (to appear).