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List of Publications

Conference Proceedings

- 2015 M. Sharif and **Z. Yousaf**: *Dynamical Instability Of Relativistic Fluids in $f(R)$ Gravity*, Proc. Int. Conf. Relativ. Astrophys (2015)202.
- 2016 M. Sharif and **Z. Yousaf**: *Causes of Inhomogeneous Energy Density in Relativistic Fluids with $f(R)$ Background*, Proc. 14th Reg. Conf. Math. Phys. To appear.

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 $R + \varepsilon R^2$ Gravity*,
Mon. Not. R. Astron. Soc. **440**, 3479 (2014).
- 2014 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 $R + \varepsilon R^n$ 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 εR^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 $\alpha R^2 + \beta(R_{;\delta} T^{;\delta})$ 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 Λ -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. Rafaqat: *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: *Stable 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- Λ 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*
Eur. Phys. J. C **77**, 359 (2017).

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*,
Accepted for publications in Can. J. Phys.

2017 M. Z. Bhatti, **Z. Yousaf** and S. Ashraf: *Charged Black String Thin-shell Wormholes in Modified Gravity*,
Ann. Phys. **383**, 439 (2017).