

Bibliography

Abazajian, K. et al., 2004: The Second Data Release of the Sloan Digital Sky Survey, *Astron. J.*, 128, pp. 502-512 (2004), arXiv: astro-ph/0403325v1

Accioly, A. J., 1985: Exact Kantowski-Sachs and Bianchi Types I and III Cosmological Models with a Conformally Invariant Scalar Field, *Revista Brasileira de Fisica*, 15, no. 2, pp. 167-173

Accioly, A. J., et al., 1983: Nonminimal Coupling and Bianchi Types I Cosmologies, *Phys. Rev. D*, Vol. 28, No. 8, pp. 1853-1857

Adams, P. J. et al., 1982: Inhomogeneous Cosmology; Gravitational

Adams, P. J. et al., 1982: Inhomogeneous Cosmology; Gravitational Radiation in Bianchi Background, *Astrophys. J.*, Part 1, Vol. 253, pp. 1-18

Ade, P. A. R. et al., 2014: Planck 2013 results XVI. Cosmological parameters, *Astron. Astrophys.*, 571, A16 (2014)

Ade, P. A. R. et al., 2016: Planck 2015 results XIII. Cosmological parameters, Planck Collaboration: *Astron. Astrophys.*, June 20, 2016; arXiv: 1502.01589v3 [astro-ph.CO] 17 Jun 2016

Adhav, K. S., 2011a: LRS Bianchi Type-I Cosmological Model with Linearly Varying Deceleration Parameter, *Eur. Phys. J. Plus*, 126, 122, 2011; doi: 10.1140/epjp/i2011-11122-9

Adhav, K. S., 2011b: LRS Bianchi Type-I Universe with Anisotropic Dark Energy in Lyra Geometry, *Int. J. Astron. Astrophys.*, Vol. 1, No. 4, pp. 204-209

Adhav, K. S., 2012: LRS Bianchi Type-I Cosmological Model in $f(R, T)$ Theory of Gravity, *Astrophys. Space Sci.*, Vol. 339, Issue 2, pp. 365-369

Adhav, K. S., Agarwal, P. R. and Purandare, M. A., 2015: Bianchi Type-III Cosmological Model with Quadratic Equation of State, *African Rev. Phys.*, 10, 0009, pp. 65-68

Adhav, K. S., Nimkar, A. S., Ugale, M. R. and Dawande, M. V., 2008: Bianchi Type-III Cosmological Model with Negative Constant Deceleration Parameter in Brans Dicke Theory of Gravitation, *Int. J. Theor. Phys.*, 47, pp. 634-639, 2008; doi: 10.1007/s10773-007-9487-y

Adhav, K. S., Wankhade, R. P. and Bansod, A. S., 2013: LRS Bianchi Type-I Cosmological Model with Anisotropic Dark Energy and Special Form of Deceleration Parameter, *J. Mod. Phys.*, 4, pp. 1037-1047; doi-10.4236/jmp.2013.48139

Adler, R., Bazin, M., Schiffer, M., 1975: *Introduction to General Relativity*, Mc Graw-Hill Book Company.

Agarwal, S., Pandey, R and Pradhan, A., 2011: LRS Bianchi Type II Perfect Fluid Cosmological Models in Normal Gauge for Lyra's Manifold, *Int. J. Theor. Phys.*, 50, No. 1, 2011, pp. 296-307; doi: 10.1007/s10773-010-0523-y

Akarsu, O. and Dereli, T., 2011: Cosmological Models with Linearly Varying Deceleration Parameter, *Int. J. Theor. Phys.*, 51, 612 (2011); doi: 10.1007/s10773-011-0941-5

Akarsu, O. and Kilinc, C. B., 2010a: LRS Bianchi Type-I Models with Anisotropic Dark Energy and Constant Deceleration Parameter, *Gen. Rel. Grav.*, Vol. 42, No. 1, pp. 119-140

Akarsu, O. and Kilinc, C. B., 2010b: Bianchi Type-III Models with Anisotropic Dark Energy, *Gen. Rel. Grav.*, Vol. 42, No. 4, pp. 763-775

Akarsu, O., Kumar, S., Myrzakulov, R., Sami, M. and Xu, L., 2014: Cosmology with Hybrid Expansion Law: Scalar Field Reconstruction of Cosmic History and Observational Constraints, JCAP, Vol. 01, pp. 022; doi: 10.1088/1475-7516/2014/01/022

Albrecht, A., Steinhardt, P. J., Turner, M. S. and Wilczek, F., 1982: Reheating an Inflationary Universe, Phys Rev Lett, vol. 48, no. 20, pp. 1437–1440.

Ali, A. T. and Rahaman, F., 2013: New Class of Magnetized Inhomogeneous Bianchi Type-I Cosmological Model with Variable Magnetic Permeability in Lyra Geometry, arXiv: 1306.5739v2 [gr-qc] 11 Dec (2013)

Ali, A. T., Yadav, A. K. and Alzahrani, A. K., 2016: Similarity Dark Energy Models in Bianchi Type-I Space-Time, Eur. Phys. J. Plus, 131, 415, (13 pages); DOI: 10.1140/epjp/i2016-16415-9

Allen, S.W. et al., 2004: Constraints on Dark Energy from Chandra Observations of the Largest Relaxed Galaxy Clusters, Mon. Not. R. Astron. Soc., Vol. 353, pp. 457

Alves, M. E. S., Moraes, P. H. R. S., Araujo, J. C. N. de and Malheiro, M., 2016: Gravitational Waves in $F(R, T)$ and $F(R, T^\phi)$ Theories of Gravity, Phys. Rev D, Vol. 94, pp. 024032 (2016), doi: 10.1103/PhysRevD.94.024032

Amanullah, R. et al., 2010: Spectra and Hubble Space Telescope Light Curves of Six Type Ia Supernovae at $0.511 < z < 1.12$ and the Union2 Compilation, Astrophys. J., Vol. 716, pp. 712

Amirhashchi, H., Zainuddin, H. and Dezfouli, H. N. S., 2009: Geometrical Behaviors of LRS Bianchi Type-I Cosmological Model, E. J. Theor. Phys., Vol. 6, No. 22, pp. 79-84

Ananda K. N. and Bruni M., 2006: Cosmological Dynamics and Dark Energy with a Nonlinear Equation of State: A Quadratic Model, Phys. Rev. D, Vol. 74, pp. 023523, arxiv: astro-ph/0512224

Anderson, L. et al., 2013: The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the Data Release 9 Spectroscopic Galaxy Sample, *Mon. Not. R. Astron. Soc.*, Vol. 427, pp. 3435, arXiv: 1203.6594v1 [astro-ph.CO] 29 Mar 2012

Armendariz-Pecon, C., Mukhanov, V.F. and Steinhardt, P. J., 2000a: Dynamical Solution to the Problem of a Small Cosmological Constant and Late-Time Cosmic Acceleration, *Phys. Rev. Lett.*, Vol. 85, No. 21, pp. 4438-4441; arXiv: astro-ph/0004134

Armendariz-Pecon, C., Mukhanov, V.F. and Steinhardt, P. J., 2000b: Essentials of k-essence, *Phys. Rev. Lett.*, Vol. 63, pp. 103510; doi: 10.1103/PhysRevD.63.103510; arXiv: astro-ph/0006373

Asgar, A. and Ansary, M., 2014a: Accelerating Bianchi Type-VI₀ Bulk Viscous Cosmological Models in Lyra Geometry, *J. Theor. Appl. Phys*, Vol. 8, pp. 219-224; doi: 10.1007/s40094-014-0151-7.

Asgar, A. and Ansary, M., 2014b: Bianchi Type-V Universe with Anisotropic Dark Energy in Lyra's Geometry, *African Rev. Phys.*, Vol. 9, No. 0019, pp. 145-151

Asgar, A. and Ansary, M., 2014c: Exact Solutions of Axially Symmetric Bianchi Type-I Cosmological Model in Lyra Geometry, *IOSR J. Appl. Phys.*, Vol. 5, No. 6, pp. 01-05

Astier, P. et al., 2006: The Supernova Legacy Survey: Measurement of Ω_m , Ω_Λ and ω from the First Year Data Set, *Astron. Astrophys.*, Vol. 447, pp. 31-48; arXiv: astro-ph/0510447; doi: 10.1051/0004-6361:20054185

Avelino, P. P., Bolejko, K. and Lewis, G. F., 2014: Nonlinear Chaplygin Gas Cosmologies, *Phys. Rev. D*, Vol. 89, pp. 103004 (6 pages); doi: 10.1103/PhysRevD.89.103004; arXiv: 1403.1718 [astro-ph.CO]

Azevedo, R. P. L. and Martins, C. J. A. P., 2017, Cosmic String and other Topological Defects in nonscaling regimes, *Phys. Rev. D*, Vol. 95, pp. 043537

Bagla, J. S., Padmanabhan, T., Narlikar, J. V., 1996: Crisis in Cosmology: Observational Constraints on Ω and H_0 , *Comments Astrophys*, Vol. 18, No. 5, pp. 275-288

Bahrehabkhsh, A. F., Farhoudi, M. and Vakili, H., 2013: Dark Energy from Fifth-Dimensional Brans-Dicke Theory, *Int. J. Mod. Phys. D*, Vol. 22, No. 10, 1350070 (18 pages); doi: 10.1142/S0218271813500703

Bahrehabkhsh, A.F., Farhoudi, M. and Shojaie, H., 2011: FRW Cosmology from Five Dimensional Vacuum Brans-Dicke Theory, *Gen. Rel. Grav.*, Vol. 43, pp. 847-869; doi: 10.1007/s10714-010-1101-6

Bali, R and Tyagi, A., 1989: A Cylindrically Symmetric Inhomogeneous Cosmological model with Electromagnetic Field, *Gen. Rel. Grav.*, Vol. 21, No. 8, pp. 797-806

Bali, R. and Anjali, 2006: Bianchi Type I Magnetized String Cosmological Model in General Relativity, *Astrophys. Space Sci*, Vol. 302, pp. 201-205; Doi: 10.1007/10509-005-9029-0

Bali, R. and Dave, S., 2001: Bianchi Type-IX String Cosmological Model in General Relativity, *Pramana J. Phys*, Vol. 56, No.4, pp. 513-518

Bali, R. and Dev, S, 2002: Bianchi Type-III String Cosmological Model with Bulk Viscous Fluid in General Relativity, *Astrophys. Space Sci.*, Vol. 282, No. 2, pp. 461-466; DOI: 10.1023/A:1020834610024

Bali, R. and Kumawat, P., 2010: Bianchi Type I Tilted Cosmological Model for Barotropic Perfect Fluid Distribution with Heat Conduction in General Relativity, *Braz. J. Phys.*, Vol. 40, No. 3, (2010); doi: 10.1590/S0103-97332010000300001

Bali, R. and Singh, S., 2015: Locally Rotational Symmetric Bianchi Type I Massive String Cosmological Model with Vacuum Energy Density and Magnetic Field in General Relativity, *Canadian J. Phys.*, Vol. 94, No. 3, pp. 267-270; <http://doi.org/10.1139/cjp-2015-0691>

Bamba, K., Capozziello, S., Nojiri S. and Odintsov S. D., 2012: Dark Energy Cosmology: The Equivalent Description via Different Theoretical Models and Cosmography Tests, *Astrophys. Space Sci.*, Vol. 342, pp. 155-228, doi: 10.1007/s10509-012-1181-8; arXiv: 1205.3421 [gr-qc]

Banerjee, A. and Santos, N. O., 1981: Homogeneous cosmological model in general scalar-tensor theory, *Phys. Rev. D*, Vol. 23, No. 10, pp. 2111-2115

Banerjee, A. et al., 1990: Bianchi Type-I Cosmological Models with Viscous Fluid in Higher Dimensional Space Time, *Astrophys. J.*, Vol. 358, pp. 23-27

Banerjee, A., Duttachoudhury, S. B. and Sanyal, A. K., 1986: Bianchi type II cosmological model with viscous fluid, *Gen. Rel. Grav.*, Vol. 18, No. 5, pp. 461-477

Banerjee, A., Sanyal, A. K. and Chakrabarty, S., 1990, String Cosmology in Bianchi I Space-Time, *Pramana J. Phys.*, Vol. 34, No. 1, pp. 1-11

Barker, B. M., 1978: General Scalar-Tensor Theory of Gravity with Constant G, *Astrophys. J.*, Vol. 219, pp. 5-11

Barris, B. J. et al., 2004: Twenty-Three High-Redshift Supernovae from the Institute for Astronomy Deep Survey: Doubling the Supernova Sample at $Z > 0.7$, *Astrophys. J.*, Vol. 602, pp. 571-594

Barrow, J. D., 1997: Cosmological Limits on Slightly Skew Stresses, *Phys. Rev. D*, Vol. 55, pp. 7451-7460

Baysal, H., Yavuz, I. and Tarhan, I., 2001, Some String Cosmological Models in Cylindrically Symmetric Inhomogeneous Universe, *Turk. J. Phys.*, Vol. 25, pp. 283-292

Beesham, A., 1986: Vacuum Friedmann Cosmology Based on Lyra's Manifold, *Astrophys. Space Sci.*, Vol. 127, No. 1, pp. 189-101

Beesham, A., 1988: FLRW Cosmologies Models in Lyra's Manifold with Time Dependent Displacement Field, *Aust. J. Phys.*, Vol. 41, No. 6, pp. 833-842; doi: 10.1071/PH880833

Beesham, A., 1993: Cosmological Model with Constant Deceleration Parameter and Bulk Viscous Mode, *Gen. Rel. Grav.*, Vol. 25, No. 6, pp. 561-565

Behal, R. and Shukla, D. P., 2017: Bulk Viscous Fluid Bianchi Type-V String Cosmological Models in General Relativity, *AIP Conference Proceedings* 1860, 020043; DOI: <http://dx.doi.org/10.1063/1.4990342>

Bekenstein, J. D., 2004: Relativistic Gravitation Theory for the Modified Newtonian Dynamics Paradigm, *Phys. Rev. D*, Vol. 70, 083509; doi: 10.1103/PhysRevD.70.083509; arXiv:astro-ph/0403694v6

Bena, I. and Grana, M., 2017: String Cosmology and the landscape, *Comptes Rendus Physique*, Vol. 8, No. 3-4, pp. 200-206; DOI: 10.1016/j.crhy.2017.04.001

Bennett, C. L. et al., 2003: First Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Preliminary Maps and Basic Results, *Astrophys. J. Suppl.*, Vol. 148, pp. 1-27; doi: 10.1086/377253

Berman, M. S. and Gomide, F. de M., 1988: Cosmological Models with Constant Deceleration Parameter, *Gen. Rel. Grav.*, Vol. 20, No. 2, pp. 191-198; doi: 10.1007/BF00759327

Berman, M. S., 1983: A Special Law of Variation for Hubble's Parameter, *IL Nuovo Cimento, Series 11, Vol. 74B*, pp.182-186, (Italy); doi: 10.1007/BF02721676

Bernardis, P. de et al., 2000: A Flat Universe from High-Resolution Maps of the Cosmic Microwave Background Radiation, *Nature*, Vol. 404, pp. 955-959; arXiv: astro-ph/0004404.

Bhamra, K. S., 1974: A Cosmological Model of Class One in Lyra's Manifold, *Aust. J. Phys.*, Vol. 27, No. 5, pp. 541-547; DOI: 10.1071/PH740541

Bhattacharjee, R and Baruah, K. K., 2001, String Cosmologies with a Scalar Field, *Indian J. Pure Appl. Math.*, Vol. 32, No. 1, pp. 47-53

Bianchi, L., 1918: Capitolo XIII, Appicazioni Alla Teoria Degli Spazii Pluridimensionali Con Ungruppo Continuo di Movimenti, Article-198. *Lezioni Sulla Teoria Dei Gruppi Continui Finiti Di Transformazioni* (E. Spoenri, Pisa, Italy) [see also Nicola Zanichelli, Bologna (1928) edition]

Binney, J. and Tremaine, S., 2008: *Galactic Dynamics-Second Edition*, Princeton University Press.

Boehmer, C. G., Chan, N. and Lazkoz, R., 2012: Dynamics of Dark Energy Models and Centre Manifolds, *Phys. Lett. B*, Vol. 714, pp. 11-17; doi: 10.1016/j.physletb.2012.06.064

Brans, C. and Dicke, R. H., 1961: Mach's Principle and a Relativistic Theory of Gravitation, *Phys. Rev.*, Vol. 124, pp. 925-935; doi: 10.1103/PhysRev.124.925

Brax, P. H. and Martin, J., 1999: Quintessence and Supergravity, *Phys. Lett. B*, Vol. 468, No.1-2, pp. 40-45; doi: 10.1016/S0370-2693(99)01209-5

Brustein, R. and Hadad, M., 1998, Particle Production in String Cosmology Models, *Phys. Rev. D*, Vol. 57, pp. 725-740

Buchdahl, H. A., 1970: Non-Linear Lagrangians and Cosmological Theory, *Mon. Not. R. Astron. Soc.*, Vol. 150, pp. 1-8; doi: 10.1093/mnras/150.1.1

Bull, P. et al., 2016: Beyond Λ CDM: Problems, Solutions, and the Road Ahead, *Physics of the Dark Universe*, Vol. 12, pp. 56-99

Cahill, M. E. and Taub, A. H., 1971: Spherically Symmetric Similarity Solutions of the Einstein field Equations for a Perfect Fluid, *Comm. Math. Phys.*, Vol. 21, No. 1, pp. 1-40

Cai, Y. F., Saridakis, E. N., Setare, M. R. and Xia, J. Q., 2010: Quintom Cosmology: Theoretical Implications and Observations, *Phys. Rept.*, Vol. 493, pp. 1-60; doi: 10.1016/j.physrep.2010.04.001

Caldwell, R. R., Dave, R. and Steinhardt, P. J., 1998: Cosmological Imprint of an Energy Component with General Equation of State, *Phys. Rev. Lett.*, Vol. 80, pp. 1582-1585; doi: 10.1103/PhysRevLett.80.1582

Capozziello S. et al., 2006a: Observational Constraints on Dark Energy with Generalized Equations of State, *Phys. Rev. D*, Vol. 73, 043512; doi: 10.1103/PhysRevD.73.043512

Capozziello, S., Carloni, S., and Trois, A., 2003: Quintessence without Scalar Fields, *Recent Res. Dev. Astron. Astrophys.*, 1, 625; astro-ph/0303041

Capozziello, S., De Martino, S. and Falanga, M., 2002: Van der Waals Quintessence, *Phys. Lett. A*, Vol. 299, pp. 494-498; doi: 10.1016/S0375-9601(02)00753-3

Capozziello, S., Nojiri, S. and Odintsov, S.D., 2006b: Unified Phantom Cosmology: Inflation, Dark Energy and Dark Matter Under the Same Standard, *Phys. Lett. B*, Vol. 632, pp. 597-604; doi: 10.1016/j.physletb.2005.11.012

Carroll, S. M., 2001: The Cosmological Constant, *Living Rev. Rel.*, Vol. 4, pp. 1; doi: 10.12942/lrr-2001-1; arXiv: astro-ph/0004075.

Casana, R., de Melo, C. A. M. and Pimental, B. M., 2005: Electromagnetic Field in Lyra Manifold: A First Order Approach, *Braz. J. Phys.*, Vol. 35, No.4B, 1151-1154; DOI: 10.1590/S0103-97332005000700040

Casana, R., de Melo, C. A. M. and Pimental, B. M., 2006: Spinorial Field and Lyra Geometry, *Astrophys. Space Sci.*, Vol. 305, pp. 125; DOI: 10.1007/s10509-006-9048-5

Chaboyer, B. et al., 1998: The Age of Globular Clusters in Light of Hipparcos: Resolving the Age Problem?, *Astrophys. J.*, Vol. 494, No.1, pp. 96-110; doi: 10.1086/305201

Chackraborty, S., 1991a, A study on Bianchi - IX Cosmological Model, *Astrophys Space Sci*, Vol. 180, pp. 293-303, DOI: 10.1007/BF 00648184

Chakraborty, S, 1991b: String Cosmology in Bianchi VI₀ Space-Time, *Ind. J. Pure Appl. Phys*, Vol. 29, pp. 31-33.

Chakraborty, S. and Ghosh, A., 2000: Generalised Scalar Tensor Theory in Four and Higher Dimension, *Int. J Mod Phys. D*, Vol. 09, No. 05, pp. 543-549

Chamseddine, A. H., et al., 2013: Mimetic Dark Matter, *JHEP*, Vol. 11, pp. 135; doi: 10.1007/JHEP11(2013)135; arXiv: 1308.5410v1 [astro-ph.CO] 25 Aug 2013

Chatterjee, S. and Banerjee, A., 1993: Kaluza-Klein Type of Inhomogeneous Cosmological Model, *Class. Quantum Grav*, Vol. 10, pp. L1-L5; doi: 10.1088/0264-9381/10/001

Chatterjee, S. and Bhui, B., 1990: Viscous Fluid in a Kaluza-Klein Metric, *Astrophys. Space Sci.*, Vol. 167, pp. 61-67, (1990); doi: 10.1007/BF00642063

Chatterjee, S., 1990: Static Spherically Symmetric Solution in a Kaluza-Klein Type of Metric, *Astron. Astrophys*, Vol. 230, pp. 1-2

Chavanis P. H., 2013: A Cosmological Model Based on a Quadratic Equation of State Unifying Vacuum Energy, Radiation, and Dark Energy, *J. Grav.*, Vol. 2013, Article ID 682451, 20 pages; doi:10.1155/2013/682451.

Chavanis P. H., 2015: A Cosmological Model Describing the Early Inflation, the Intermediate Decelerating Expansion, and the Late Accelerating Expansion of the Universe by a Quadratic Equation of State, *Universe* 2015, 1, pp. 357-411.

Chevallier, M. and Polarski, D., 2001: Accelerating Universes with Scaling Dark Matter, *Int. J. Mod. Phys. D*, Vol. 10, pp. 213; [gr-qc/0009008]

Christillin, P., 2016: Cosmogonic Speculations: Particle Creation from Energy Conservation in the Universe Evolution, *J. Mod. Phys*, Vol. 7, pp. 1331-1344; doi: 10.4236/jmp.2016.711119

Cohen, A. G., Kaplan, D. B. and Nelson, A. E., 1999: Effective Field Theory, Black Holes, and the Cosmological Constant, *Phys. Rev. Lett.*, Vol. 82, pp. 4971; [hep-th/9803132]

Collins, C. B. and Hawking, S. W., 1972: Why is the Universe Isotropic, *Astrophys. J.*, Vol. 180, pp. 317-334

Collins, C. B., Glass, E. N. and Wilkinson, D. A., 1980: Exact Spatially Homogeneous Cosmologies, *Gen. Rel. Grav.*, Vol. 12, No. 10, pp. 805-823; DOI: 10.1007/BF00763057

Copeland, E. J., Sami, M. and Tsujikawa, S., 2006: Dynamics of Dark Energy, *Int. J. Mod. Phys. D*, Vol. 15, No. 11, pp. 1753–1935; arXiv: hep-th/0603057

Cunha, J.V., 2009: Kinematic Constraints to the Redshift from Supernovae Type Ia Union Data, *Phys. Rev. D*, Vol. 79, 047301; doi: 10.1103/PhysRevD.79.047301

Dabrowski, M. P., 2008: Phantom Dark Energy and its Cosmological Consequences, The Eleventh Marcel Grossmann Meeting, pp. 1716-1763; DOI: 10.1142/9789812834300_0248; arXiv: gr-qc/0701057v1 10 Jan 2007

Daniel, S.F. et al., 2008: Large Scale Structure as a Probe of Gravitational Slip, Physics Review D., Vol. 77, 103513; DOI: 10.1103/PhysRevD.77.103513

Darabi, F., 2013: Reconstruction of $f(R)$, $f(T)$ and $f(G)$ Models Inspired by Variable Deceleration Parameter, Astrophys. Space Sci., Vol. 343, pp. 499-504; doi: 10.1007/s10509-012-1250-z

Darabi, F., Heydarzade, Y. and Hajkarim, F., 2015: Stability of Einstein Static Universe over Lyra Geometry, Canadian J. Phys., Vol. 93, No. 12, pp. 1566-1570; arXiv: 1406.7636v2 [gr-qc] 4 Dec (2015)

Das, K. and Ali, N., 2014:, Magnetized Kantowski–Sachs bulk viscous string cosmological models with decaying vacuum energy density $\Lambda(t)$, Turk J Phys, Vol. 38, pp. 193 – 202; doi:10.3906/fiz-1311-11

de Putter, R. and Linder, E. V., 2007: Kinetic K-Essence and Quintessence, Astropart. Phys., Vol. 28, pp. 263-272

Demaret, J. and Querella, L., 1995: Hamiltonian formulation of Bianchi Cosmological Models in Quadratic Theories of Gravity, Class. Quantum Grav., Vol. 12, pp. 3085-3101

Di Pietro, E. and Demaret, J., 1999: Scale Factor Duality in String Bianchi Cosmologies, Int. J. Mod. Phys. D, Vol. 8, No. 3, PP.349-361

Direc, P. A. M., 1975: General Theory of Relativity, John Wiley & Sons.

Dutta, S. and Scherrer, R. J., 2009: Dark Energy from a Phantom Field near a Local Potential Minimum, Phys. Lett. B, Vol. 676, No. 1-3, pp. 12-15

Eddington, A. S., 1965: *The Mathematical Theory of Relativity*, Cambridge University Press.

Efstathiou, G., Sutherland, W. J. and Maddox, S. J., 1990: The Cosmological Constant and Cold Dark Matter, *Nature*, Vol. 348, pp. 705-707; doi: 10.1038/348705a0

Einstein, A., 1927: On Kaluza's theory of the connection between gravitation and electromagnetism, meeting report of the Preussian Academy of Science, *Phys-Math. Class*, pp. 23-30

Eisenstein, D. J. et al., 2005: Detection of the Baryon Acoustic Peak in the Large-Scale Correlation Function of SDSS Luminous Red Galaxies, *Astrophys. J.*, Vol. 633, pp. 560

Ellis, G. F. R. and MacCallum, M. A. H., 1969: A Class of Homogeneous Cosmological Models, *Commun. Math. Phys.*, Vol. 12, pp. 108-141

Elmardi, M., Abebe, A. and Tekola, A., 2016: Chaplygin-Gas Solutions of $f(R)$ Gravity, *Int. J. Geom. Methods. Mod. Phys. (IJGMMP)*, Vol. 13, 1650120 (11 pages)

El-Nabulsi, R. A., 2008: Accelerated D-Dimensional Compactified Universe in Gauss-Bonnet-Dilatonic Scalar Gravity from D-Brane/M-Theory, *Chin. Phys. Letts.*, Vol. 25, No. 8, pp. 2785-2788; doi: 10.1088/0256-307X/25/8/014

El-Nabulsi, R. A., 2009: Implication of a Decay Law for the Cosmological Constant in Higher Dimensional Cosmology and Cosmological Wormholes, *Braz. J. Physics*, Vol. 39, No. 3, pp. 574-582

El-Nabulsi, R. A., 2009: Lyra Cosmology in $D = n + 4$ Dimensions: The Interesting Cases of $n \geq 6$ and $n \leq 104$, *Fizika B* 18, 2, pp. 81-86

El-Nabulsi, R. A., 2011a: A Modified Gravity Theory with Time-Dependent Exponent, *Eur. Phys. J. Plus*, Vol. 126, pp. 114; doi 10.1140/epjp/i2011-11114-9

El-Nabulsi, R. A., 2011b: Accelerated Dialatonic-Brans-Dicke Cyclic and Non-Singular Universe from String Theory, *Res. Astron. Astrophys.*, Vol. 11, No. 11, pp. 1249-1256; doi: 10.1088/1674-4527/11/11/001

El-Nabulsi, R. A., 2011c: Dark Energy from Logarithmically Modified Gravity and Deformed Coleman-Wienberg Potential, *Res. Astron. Astrophys.*, Vol. 11, No. 7, pp. 759-766; doi: 10.1088/1674-4527/11/7/002

El-Nabulsi, R. A., 2011d: Dark Energy in Five-Dimensional Brans-Dicke Cosmology with Dimensional Reduction, *Res. Astron. Astrophys.*, Vol. 11, No. 8, pp. 888; <http://www.raa-journal.org>

El-Nabulsi, R. A., 2013a: Crossing the Phantom Divide Line from a Generalized Time-Dependent Hubble Parameter and its Dynamical Evolution a la Riccati, *Canadian Journal of Physics*, Vol. 91, No. 8, 623; doi: 10.1139/cjp-2012-0568

El-Nabulsi, R. A., 2013b: Exact Solution of a Tachyon Oscillating Cosmology with a Supergravity Tracking Potential, *Eur. Phys. J. Plus*, Vol. 128, pp. 55 ; doi 10.1140/epjp/i2013-13055-7

El-Nabulsi, R. A., 2013c: Some Consequences of Nonstandard Lagrangians with Time-Dependent Coefficients in General Relativity, *J. Theor. Appl. Phys.*, Vol. 7, pp. 60; doi: 10.1186/2251-7235-7-60

El-Nabulsi, R. A., 2013d: Some Late-Time Cosmological Aspects of a Gauss-Bonnet Gravity with Nonminimal Coupling a la Brans-Dicke: Solutions and Perspectives, *Can. J. Phys.*, Vol. 91, pp. 1-22 ; dx.doi.org/10.1139/cjp-2012-0366

- El-Nabulsi, R. A., 2015a: Asymptotically Static Universe Dominated by Phantom Energy, *Z. Naturforsch. A*, Vol. 70, No. 2, pp. 101-108; doi 10.1515/zna-2014-0242
- El-Nabulsi, R. A., 2015b: Fractal Action Oscillating Phantom Cosmology with Conformal Coupling, *Eur. Phys. J. Plus*, Vol. 130, pp. 102; doi 10.1140/epjp/i2015-15102-9
- El-Nabulsi, R. A., 2016a: A Cosmology Governed by a Fractional Differential Equation and the Generalized Kilbas-Saigo-Mittag-Leffler Function, *Int J Theor Phys*, Vol. 55, pp.625; doi 10.1007/s10773-015-2700-5
- El-Nabulsi, R. A., 2016b: Implication of the Ornstein-Uhlenbeck-Like Fractional Differential Equation in Cosmology, *Revista Mexicana de Fisica*, Vol. 62, pp. 240-250
- Fabris, J. C., Goncalves, S. V. B. and de Souza, P. E., 2002: Density perturbations in an Universe Dominated by the Chaplygin Gas, *Gen. Rel. Grav.*, Vol. 34, pp. 53-63; arXiv: gr-qc/0103083v1
- Fabris, J. C., Velten, H. E. S., Ogouyandjou, C. and Tossa, J., 2011: Ruling out the Modified Chaplygin Gas Cosmologies, *Phys. Lett. B*, Vol. 694, pp. 289
- Faraoni, V., 2008: Palatini $f(R)$ Gravity as a fixed Point, *Phys. Lett. B*, Vol. 665, pp. 135-138; doi: 10.1016/j.physletb.2008.06.002; arXiv: 0806.0766 [gr-qc]
- Felice, A.D. and Tsujikawa, S., 2010: $f(R)$ Theories, *Living Rev. Relativity* Vol. 13, pp. 3; <http://www.livingreviews.org/lrr-2010-3>
- Feng, L. and Zhang, X., 2015: Revisit of the Interacting Holographic Dark Energy Model after Planck 2015, *JCAP*, Vol. 1608, No. 08, pp. 072; arXiv: 1607.05567 [astro-ph.CO]

- Feroze T. and Siddiqui A. A., 2011: Charged Anisotropic Matter with Quadratic Equation of State, *Gen. Rel. Grav*, Vol. 43, pp. 1025
- Frieman, J., Turner, M. and Huterer, D., 2008: Dark Energy and the Accelerating Universe, *Ann. Rev. Astron. Astrophys.*, Vol. 46, pp. 385-432; arXiv: 0803.0982; doi: 10.1146/annurev.astro.46.060407.145243
- Gad, R. M., 2011: Axially Symmetric Cosmological Mesonic Stiff Fluid Models in Lyra Geometry, *Canadian J. Phys.*, Vol. 89, No. 7, pp. 773-778
- Garnavich, P.M., et al., 1998: Supernova Limits on the Cosmic Equation of State, *Astrophys. J.*, Vol. 509, pp. 74-79; doi: 10.1086/306495
- Gott, J. R., 1985, Gravitational Lensing Effects of Vacuum Strings-Exact Solutions, *APJ*, Part 1, Vol. 288, pp. 422-427; DOI: 10.1086/162808
- Gron, O., 1988: Inflationary Cosmology According to Wesson's Gravitational Theory, *Astron. Astrophys.*, Vol. 193, pp. 1- 4
- Guo, Z. K. and Zhang, Y. Z., 2007: Cosmology with a Variable Chaplygin Gas, *Phys. Lett. B*, Vol. 645, pp. 326-329
- Halford, W. D., 1970: Cosmological Theory Based on Lyra's Geometry, *Aust. J. Phys.*, Vol. 23, pp. 863-869
- Halford, W. D., 1972: Scalar-Tensor Theory of Gravitation in a Lyra Manifold, *J. Math. Phys.*, Vol. 13, pp. 1699-1703; doi:10.1063/1.1665894
- Harko, T., Lobo, F. S. N., Nojiri, S. and Odintsov, S. D., 2011: F(R, T) Gravity, *Phys. Rev D*, Vol. 84, 024020; doi: 10.1103/PhysRevD.84.024020
- Hawking, S. W. and Taylor, R. J., 1966: Helium Production in an Anisotropic Big-Bang Cosmology, *Nature*, Vol. 209, pp. 1278-1279
- Henriksen, R. N. and Wesson, P. S., 1978: Self -Similar Space - Times, *Astrophys. Space Sci.*, Vol. 53, pp. 429; doi: 10.1007/BF00645031

Heydarzade, Y., Darabi, F. and Atazadeh, K., 2016: Einstein Static Universe on the Brane Supported by Extended Chaplygin Gas, *Astrophys Space Sci*, Vol. 361, 250 (11 pages); doi: 10.1007/s10509-016-2836-7; arXiv: 1511.03217v2 [gr-qc] 7 Jul 2016

Hinshaw, G. et al., 2013: Nine-Year Wilkinson Microwave Anisotropy Prob (WMAP) Observations: Cosmological Parameter Results, *Astrophys. J. Suppl.*, Vol. 208, 19, (25 pp), doi: 10.1088/0067-0049/208/2/19

Hova, H., 2013: Λ CDM and Power-Law Expansion in Lyra's Geometry, arXiv: 1303.2336v3 [gr-qc] 7 May (2013)

Hova, H., 2014: Vacuum Expansion in Arbitrary-Gauge Lyra geometry, *Can. J. Phys.*, Vol. 92, pp. 311-315; dx.doi.org/10.1139/cjp-2012-0279

Hoyle, F. and Narlikar, J. V., 1963: Mach's Principle and the Creation of Matter, *Pro. R. Soc. Lond. Ser A*, Vol. 273, pp. 1-11

Hoyle, F. and Narlikar, J. V., 1964: A New Theory of Gravitation, *Pro. R. Soc. Lond. Ser A*, Vol. 282, pp. 191-207

Hoyle, F., 1948: A New Model for the Expanding Universe, *Mon. Not. R. Astron. Soc.*, Vol. 108, pp. 372-382

Ivanov, B. V., 2002: Static Charged Perfect Fluid Spheres in General Relativity, *Phys. Rev. D*, Vol. 65, 104001

Jacob, K. C., 1969: Bianchi Type I Cosmologies with a Uniform Magnetic Field, *Astrophys. J.*, Vol. 155, No. 2, pp. 379-391

Jacobs, K. C., 1968: Spatially Homogeneous and Euclidean Cosmological Models with Shear, *Astrophys. J.*, Vol. 153, No. 2, pp. 661 – 678

Jeavons, J. S., McIntosh, C. B. G. and Sen, D. K., 1975: A Correction to the Sen and Dunn Gravitational Field Equations, *J. Math. Phys.*, Vol. 16, pp. 320-321

Jimanez, J. B., et al., 2009: Cosmological Electromagnetic Fields and Dark Energy, JCAP, Vol. 03, pp. 016

Johri, V. B. and Desikan, K., 1994: Cosmological Models with Constant Deceleration Parameter in Brans-Dicke Theory, Gen. Rel. Grav., Vol. 26, No. 12, pp. 1217-1232

Josset, T., Perez, A. and Sudarsky, D., 2017: Dark Energy as the Weight of Violating Energy Conservation, Phys Rev Lett, Vol. 118, 021102; arXiv: 1604.04183v3 [gr-qc] 13 Dec 2016; doi: 10.1103/PhysRevLett.118.021102

Joyce, A., Lombriser, L. and Schmidt, F., 2016: Dark Energy vs. Modified Gravity, Annu Rev Nucl Part Sci, Vol. 66, pp. 95-122; doi: 10.1146/annurev-nucl-102115-044553; arXiv: 1601.06133v4 [astro-ph.CO] 14 Jun 2016

Kahil, M. E. and Harko, T., 2009: Is Dark Matter an Extra-Dimensional Effect?, Mod. Phys. Lett. A, Vol. 24, pp. 667; doi: 10.1142/S0217732309028667

Kahya, E. O. and Pourhassan, B., 2015: The Universe Dominated by the Extended Chaplygin Gas, Mod. Phys. Lett. A, Vol. 30, 1550070

Kaluza, T., 1921: On the Problem of Unity in Physics, Sitzungsber. Preuss.Akad. Wiss.Berlin (Math. Phys.) 1921, pp. 966-972

Kalyanshetti, S. B., and Waghmode, B. B., 1982: A Static Cosmological Model in Einstein-Cartan Theory, Gen Rel. Grav, Vol. 14, No. 10, pp. 823-830; doi:10.1007/BF00756799

Kanakavalli, T., Rao, G. A. and Reddy, D. R. K., 2017: Axially Symmetric Anisotropic String Cosmological Models in Saez-Ballester Theory of Gravitation, Astrophys. Space Sci., Vol. 362, No. 2, 21 (5 pages); DOI: 10.1007/s10509-016-3001-z

Kandalkar, S. P., Khade, P. P. and Gawande, S. P., 2009: Homogeneous Bianchi Type-I Cosmological Model Filled with Viscous Fluid with a Varying Λ , Rom. Journ. Phys., Vol. 54, No. 1-2, pp. 195

Kar, S. et al., 2016: Gravity Dual D3-Braneworld and Open/Closed String Duality, Int. J. Innovat. Res. Sci, Engineer. & Tech., Vol. 5, no.9, pp. 15926-15929

Karade, T. M., and Borikar, S. M., 1978: Thermodynamic Equilibrium of a Gravitating Sphere in Lyra's Geometry, Gen. Rel. Grav, Vol. 9, No. 5, pp-431-436

Kasner, E., 1921: Geometrical Theorems on Einstein's Cosmological Equations, American J. Math., Vol. 43, pp. 217

Katore, S. D. and Shaikh, A. Y., 2014: Bianchi Type-V Magnetized Anisotropic Dark Energy Models with Constant Deceleration Parameter, African Rev. Phys., Vol. 9, No. 0035, pp. 269-276

Kawai, S. and Soda, J., 1999: Nonsingular Bianchi Type-I Cosmological Solutions from the 1-loop superstring effective Action, Phys. Rev. D, Vol. 59, 063506

Khadekar, G. S. and Nagpure, A. R., 2001: Higher Dimensional Static Cosmological Model in Lyra Geometry, arXiv:gr-qc/0111096

Khalatnikov, I. M. and Lifshitz, E. M., 1970: General Cosmological Solution of the gravitational equations with a singularity in Time, Phys. Rev. Lett, Vol. 24, No. 2, pp. 76-79

Khurshudyan, M. et al., 2014a: Interacting Quintessence Dark Energy Models in Lyra Manifold, Advances in High Energy Physics, Vol. 2014, 878092; doi: 10.1155/2014/878092; arXiv: 1404.2141v3 [gr-qc] 18 Aug (2014)

Khurshudyan, M. et al., 2014b: Interacting Ricci Dark Energy Models with an Effective Λ -term in Lyra Manifold, *Int. J. Theor. Phys.*, Vol. 54, pp. 749; doi: 10.1007/s10773-014-2266-7; arXiv: 1402.5678v1 [gr-qc] 23 Feb (2014)

Khurshudyan, M., Chubaryan, E., Pourhassan, B., 2014c: Interacting Quintessence Models of Dark Energy, *Int. J. Theor. Phys.*, Vol. 53, No. 7, pp. 2370-2378

Kibble, T. W. B., 1976: Topology of Cosmic Domains and Strings, *J. Phys. A.: Math. Gen.*, Vol. 9, No. 8, pp. 1387-1398

Kim, W. and Yoon, M., 2007: Transition from AdS Universe to DS Universe in the BPP Model, *JHEP*, Vol. 0704, pp. 098; doi: 10.1088/1126-6708/2007/04/098

Klein, O., 1926: Quantentheory und fünfdimensionale Relativitätstheorie, *Z. Phys.*, Vol. 37, No. 12, pp. 895-906 ; DOI: 10.1007/BF01397481

Komatsu, E. et al., 2009: Five-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Cosmological Interpretation, *Astrophys. J. Suppl.*, Vol. 180, pp. 330

Kompaneets, A. S. and Chernov, A. S., 1964: Solution of the Gravitation Equations for a Homogeneous Anisotropic Model, *J. Exptl. Theoret. Phys. (U.S.S.R.)* Vol. 47, pp. 1939-1944, [*Soviet Phys.-JEPT*, 20, 1303]

Korpınar, T. and Unluturk, Y., 2015: New Bianchi type-I Cosmological Models for Biharmonic Particles using String Cosmology with Exponential Law, *Gen Rel. Grav.*, Vol. 47, 138 (12 pages)

Kremer, G. M., 2003a: Cosmological Models Described by a Mixture of Van der Waals Fluid and Dark Energy, *Phys. Rev. D*, Vol. 68, 123507

Kremer, G. M., 2003b: Irreversible Processes in a Universe Modelled as a Mixture of a Chaplygin Gas and Radiation, *Gen. Rel. Grav.*, Vol. 35, pp. 1459

- Kremer, G. M., 2004: Brane Cosmology with a Van der Waals Equation of State, *Gen. Rel. Grav.*, Vol. 36, No. 6, pp 1423-1432; doi: 10.1023/B:GERG.0000022578.70873.6d
- Krori, K. D. et al., 1990, Some Exact Solution in String Cosmology, *Gen Relativ Grav*, Vol. 22, No. 2, pp. 123-130
- Krori, K. D., Chaudhuri, T. and Mahanta, C. R., 1994: Strings in Some Bianchi Type Cosmologies, *Gen. Rel. Grav.*, Vol. 26, No. 3, pp. 265
- Kumar, S. and Singh, C. P., 2008: An Exact Bianchi Type-I Cosmological Model in Lyra's Manifold, *Int. J. Mod. Phys. A*, Vol. 23, No. 6, pp. 813-822
- Kumari, p., Singh, M. K. and Ram, S., 2013: Anisotropic Bianchi Type-III Bulk Viscous Fluid Universe in Lyra Geometry, *Advances in Mathematical Physics* (Hindawi Publishing Corporation), Volume 2013, Article ID 416294, 5 pages, <http://dx.doi.org/10.1155/2013/416294>.
- Ladke, L. S., 2014: Five Dimensional Bianchi Type-I (Kasner Form) Cosmological Models, *Int. J. Sci. Innov. Math. Research (IJSIMR)*, Vol. 2, No. 5, pp. 453-459
- Latifi, A. Musette, M. and Conte, R., 1994: The Bianchi IX (Mixmaster) Cosmological Model is Not Integrable, *Phys. Lett. A*, Vol. 194, No. 1-2, pp. 83-92
- Letelier, P. S., 1979: Clouds of Strings in General Relativity, *Phys. Rev. D.*, Vol. 20, No. 6, pp. 1294-1302
- Letelier, P. S., 1983: String Cosmologies, *Phys. Rev. D.*, Vol. 28, No. 10, pp. 2414-2419
- Levi Civita, T., 1919: *Rend. Mat. Acc. Lincei*, S. 5, V. 28 (1919)
- Li, M., 2004: A Model of Holographic Dark Energy, *Phys. Lett. B*, Vol. 603, pp. 1 [hep-th/0403127]

Li, M., Li, X. D., Wang, S. and Wang, Y., 2011: Dark Energy, Commun. Theor Phys., Vol. 56, pp. 525; arXiv: 1103.5870 [astro-ph.CO]

Li, M., Li, X. D., Wang, S. and Zhang, X., 2009: Holographic Dark Energy Models: A Comparison from the Latest Observational Data, JCAP, Vol. 0906, pp. 036; doi: 10.1088/1475-7516/2009/06/036; arXiv: 0904.0928 [astro-ph.CO]

Liddle, A., 1998: An Introduction to Modern Cosmology, Wiley- Blackwell.

Linde, A., 1990: Particle Physics and Inflationary Cosmology, Harwood, Chur, Switzerland

Linder, E. V., 2003: Exploring the expansion history of the universe, Phys. Rev. Lett., Vol. 90, 091301; [astro-ph/0208512]

Linder, E.V., 2015: Dark Energy from α -Attractors, Phys. Rev. D, Vol. 91, 123012; doi: 10.1103/PhysRevD.91.123012

Linder, E.V., Sengör, G. and Watson, S., 2016: Is the Effective Field Theory of Dark Energy Effective?, JCAP, Vol. 1605, pp. 053; doi: 10.1088/1475-7516/2016/05/053; arXiv:1512.06180v1 [astro-ph.CO] 19 Dec (2015)

Lyra, G., 1951, Über-eine Modifikation der Riemannschen Geometrie, Mathematische Zeitschrift, Vol. 54, No. 1, pp. 52-64; doi:10.1007/BF01175135

MacCallum, M. A. H., 1979: Anisotropic and Inhomogeneous Relativistic Cosmologies, In General Relativity: An Einstein Centenary Survey, eds. S. W. Hawking & W. Isreal (Cambridge Univ. Press), pp. 533-580

MacCallum, M. A. H., 1992: Anisotropic and Inhomogeneous Cosmologies, arXiv: gr-qc/9212014v1 (21 Dec 1992)

Mahanta, K. L. and Biswal, A. K., 2012: String Cloud and Domain Walls with Quark Matter in Lyra Geometry, J. Mod. Phys., Vol. 3, pp. 1479-1486

Maharaj S. D. and Takisa P. M., 2012: Regular models with quadratic equation of state, *Gen. Rel. Grav.*, Vol. 44, pp. 1419-1432; doi: 10.1007/s10714-012-1347-2

Malaver, M., 2013: Analytical model for charged polytropic stars with Van der Waals Modified Equation of State, *American Journal of Astronomy and Astrophysics*, Vol. 1, No. 4, pp. 37-42

Malaver, M., 2014: Strange Quark Star Model with Quadratic Equation of State, *Frontiers of Mathematics and its Application (FMIA)*, Vol. 1, No. 1, pp. 9-15; arXiv:1407.0760[gr-qc]

Martin, J., 2012: Everything You Always Wanted To Know About The Cosmological Constant Problem (But Were Afraid To Ask), *Comptes Rendus Phys.*, Vol. 13, pp. 566 : arXiv:1205.3365

McCarthy, J. K. A. et al., 2008: The Sixth Data Release of the Sloan Digital Sky Survey, *Astrophys. J. Suppl. S.*, Vol. 175, No. 2, pp. 297-313

Megied, M. A., Gad, R. M. and Hegazy, E. A., 2014: Inhomogeneous Bianchi type-I Cosmological Model with Electromagnetic Field in Lyra Geometry, *Assiut Univ. J. of Mathematics and Computer Science (2009)*, Vol. 38, pp. 1-10; arXiv: 1411.5978v1 [gr-qc] 21 Nov (2014)

Melchiorri, A. et al., 2000: A Measurement of Ω from the North American Test Flight of Boomerang, [Boomerang Collaboration]: *Astrophys. J.*, Vol. 536, pp. L63-L66; doi: 10.1086/312744

Mermin, N.D., 1979: The Topological Theory of Defects in Ordered Media, *Rev. Mod. Phys.*, Vol. 51, No. 3, pp. 591-648

Mete, V. G. et al., 2017: Bianchi Type IX Magnetized Bulk Viscous String Cosmological Model in General Relativity, *Theoret. Phys.*, Vol. 2, No. 1, DOI: 10.22606/tp.2017.21003

Mishra, B. and Tripathy, S. K., 2015b: Anisotropic dark energy model with a hybrid scale factor, *Mod. Phys. Lett. A*, Vol. 30, No. 36, 1550175; doi: 10.1142/S0217732315501758; arXiv: 1507.03515v1 [physics.gen-ph] 29 May 2015

Mishra, B., Sahoo, P. K. and Varma, C. B. S, 2015a: Dark Energy Cosmological Model for Bianchi Type-III Space-Time with Perfect Fluid, *Int. J. Pure Appl. Math.*, Vol. 99, No. 1, pp. 109-121

Misner, C. W., 1967: Neutrino Viscosity and the Isotropy of Primordial Black-Body Radiation, *Phys. Rev. Lett.*, Vol. 19, pp. 533

Misner, C. W., 1968: The Isotropy of the Universe, *Astrophys. J.*, Vol. 151, pp. 431-457

Misra, M and Radhakrishna, L., 1962, Some Electromagnetic Field of Cylindrical Symmetry, *Proc. Nat. Inst. Sci. (India)* A28, pp. 632

Mohanty, G. and Mahanta, K. L., 2007: Five Dimensional Anisotropic Homogeneous Cosmological Models in Self-Creation Theory of Gravitation, *Turk. J. Phys.*, Vol. 31, pp. 299-306

Mohanty, G. and Samanta, G. C., 2009a: Five Dimensional Axially Symmetric String Cosmological Models with Bulk Viscous Fluid, *Int. J. Theor. Phys.*, Vol. 48, pp. 2311; doi: 10.1007/s10773-009-0020-3

Mohanty, G., Sahoo, R. R. and Bishi, B. K., 2009b: Non-existence of five dimensional string cosmological models in Riemannian and Lyra geometries, *Astrophys. Space Sci.*, Vol. 319, pp. 75-79; doi: 10.1007/s10509-008-9940-2

Mohanty, G., Samanta, G. C. and Mahanta, K. L., 2007: Higher Dimensional String Cosmological Model with Bulk Viscous Fluid in Lyra Manifold, *Comm. Phys.*, Vol. 17, No. 4, pp. 213-220

Mohanty, G., Samanta, G. C. and Mahanta, K. L., 2009c: Kaluza-Klein FRW cosmological models in Lyra manifold, *Theoret. Appl. Mech.*, Vol. 36, No.2, pp. 157-166, Belgrade 2009

Mollah, M. R. and Singh, K. P., 2016: Higher dimensional Cosmological Model Universe with Quadratic Equation of State in Lyra Geometry, *Prespacetime J.*, Vol. 7, No. 3, pp. 499-508

Mollah, M. R. et al., 2015: Five dimensional string universes in Lyra manifold, *Int. J. Astron. Astrophys.*, Vol. 5, pp. 90-94; doi: 10.4236/ijaa.2015.52012

Motloch, P., Hu, W., Joyce, A. and Motohashi, H., 2015: Self-Accelerating Massive Gravity: Superluminality, Cauchy Surfaces and Strong Coupling, *Phys. Rev. D*, Vol. 92, 044024; doi: 10.1103/PhysRevD.92.044024

Myrzakulov, R. et al., 2015: Inflation in $f(R, \phi)$ -Theories and Mimetic Gravity Scenario, *Eur. Phys. J. C*, Vol. 75, No. 9, pp. 444; doi: 10.1140/epjc/s10052-015-3672-6; arXiv: 1504.07984v3 [gr-qc] 17 Nov 2015

Narlikar, J. V., 2002: *An Introduction to Cosmology*, Cambridge University Press.

Nayak, B. K. and Bhuyan, G. B., 1987: Bianchi Type-V Perfect Fluid Models with Source-Free Electromagnetic Fields, *Gen. Rel. Grav.*, Vol. 19, No. 9, pp. 939-948

Nishizawa, A. J., 2014: Integrated Sachs Wolfe Effect and Rees Sciama Effect, *Prog. Theor. Exp. Phys.*, Vol. 6, 06B110, (24 pages); doi: 10.1093/ptep/ptu062; arXiv: 1404.5102v1 [astro-ph.CO] 21 Apr 2014

Nojiri, S. and Odintsov, S. D., 2004: Final State and Thermodynamics of a Dark Energy Universe, *Phys. Rev. D*, Vol. 70, 103522; doi: 10.1103/PhysRevD.70.103522; arXiv: hep-th/0408170

Nojiri, S. and Odintsov, S. D., 2005a: Inhomogeneous Equation of State of the Universe: Phantom Era, Future Singularity, and Crossing the Phantom Barrier, *Phys. Rev. D*, Vol. 72, 023003; doi: 10.1103/PhysRevD.72.023003

Nojiri, S. and Odintsov, S. D., 2006a: Unifying Phantom Inflation with Late-Time Acceleration: Scalar Phantom-Non-Phantom Transition Model and Generalized Holographic Dark Energy, *Gen. Rel. Grav.*, Vol. 38, pp. 1285; doi: 10.1007/s10714-006-0301-6

Nojiri, S. and Odintsov, S. D., 2007: Introduction to Modified Gravity and Gravitational Alternative for Dark Energy, *Int. J. Geom. Meth. Mod Phys.*, Vol.4, No.1, pp. 115-145; doi- 10.1142/S0219887807001928

Nojiri, S. and Odintsov, S. D., 2014a: Accelerating Cosmolgy in Modified Gravity: From Convenient $F(R)$ or String-Inspired Theory to Bimetric $F(R)$ Gravity, *Int. J. Geom. Meth. Mod Phys*, Vol. 11, No. 2, 1460006 (24 pages); arXiv: 1306.4426v1 [gr-qc] 19 Jun 2013

Nojiri, S. et al., 2003: Modified Gravity with Negative and Positive Powers of Curvature: Unification of Inflation and Cosmic Acceleration, *Phys. Rev. D*, Vol. 68, 123512; doi: 10.1103/PhysRevD.68.123512; arXiv: hep-th/0307288v4 19 Sep 2003

Nojiri, S. et al., 2011: Unified Cosmic History in Modified Gravity: From $F(R)$ Theory to Lorentz Non-Invariant Models, *Phys. Rept.*, Vol. 505, pp. 59-144; doi: 10.1016/j.physrep.2011.04.001; arXiv: 1011.0544v4 [gr-qc] 29 May 2011

Nojiri, S. et al., 2014b: Mimetic $F(R)$ Gravity: Inflation, Dark Energy and Bounce, *Mod. Phys. Lett. A*, Vol. 29, No. 40, 1450211 (13 pages); doi: 10.1142/S0217732314502113; arXiv: 1408.3561v3 [hep-th] 18 Dec 2014

Nojiri, S., Odintsov, S. D. and Gorbunova, O. G., 2006b: Dark Energy Problem: From Phantom Theory to Modified Gauss-Bonnet Gravity, *J. Phys. A: Math. Gen*, Vol. 39, pp. 6627-6633; doi: 10.1088/0305-4470/39/21/S62

Nojiri, S., Odintsov, S. D., and Tsujikawa S., 2005b: Properties of Singularities in the (Phantom) Dark Energy Universe, *Phys. Rev. D*, Vol. 71, 063004, arxiv:hep-th/0501025.

Nordtvedt, K., Jr., 1970: Post-Newtonian Metric for a General Class of Scalar-Tensor Gravitational Theories and Observational Consequences, *Astrophysical Journal*, Vol. 161, pp.1059-1067

Ostriker, J. P., and Steinhardt, P. J., 1995: The observational case for a low-density Universe with a non-zero cosmological constant, *Nature*, Vol. 377, pp. 600-602

Padmanabhan, T. and Choudhury, T. R., 2002: Can the Clustered Dark Matter and the Smooth Dark Energy Arise from the Same Scalar Field?, *Phys. Rev. D*, Vol. 66, 081301

Padmanabhan, T., 2003: Cosmological Constant - the Weight of the Vacuum, *Phys. Rept.*, Vol. 380, pp. 235-320; doi: 10.1016/S0370-1573(03)00120-0, [hep-th/0212290]

Padmanabhan, T., 2010: *Gravitation*, Cambridge University Press.

Pando, J., Gavaud, D. V. and Fang, L., 1998: Evidence for Scale-Scale Correlations in the Cosmic Microwave Background Radiation, *Phys.Rev.Lett.*, Vol. 81, No. 21, pp. 4568-4571.

Panigrahi, U. K. and Nayak, B., 2014: Five Dimensional Stiff Fluids with Variable Displacement Vector in Lyra Manifold, *Int. J. Mathematical Archive-5(5)*, pp.123-128, ISSN 2229 – 5046

Pasechnik, R., 2016: Quantum Yang-Mills Dark Energy, *Universe* 2016, 2, 4; doi:10.3390/universe2010004

Patil, V. R. and Bhojne, S. A., 2016: Bianchi Type-IX String Cosmological Model with Viscous Fluid and Magnetic Flux, *Int. J. Res. Eng. Appl. Sci.*, Vol. 6, No. 2, pp. 123-126

Peebles, P. J. E. and Ratra, B., 2003: The Cosmological Constant and dark Energy, *Rev. Mod. Phys.*, Vol. 75, pp. 559-606

Percival, W. J. et al., 2007: Measuring the Matter Density Using Baryon Oscillations in the SDSS, *Astrophys. J.*, Vol. 657, pp. 51-55, doi: 10.1086/510772

Perlmutter, S. et al., 1997: Measurements of the Cosmological Parameters Ω and Λ from the First Seven Supernovae at $z \geq 0.35$, *Astrophys. J.*, Vol. 483, No. 2, pp. 565-581; doi: 10.1086/304265

Perlmutter, S. et al., 1999: Measurements of Ω (Omega) and Λ (Lambda) from 42 High-Redshift Supernovae, *Astrophys. J.*, Vol. 517, pp. 565-586; doi: 10.1086/307221

Persic, M., Salucci, P., Stel, F., 1996: The Universal Rotation Curve of Spiral Galaxies - I. the Dark Matter Connection, *Mon. Not. R. Astron. Soc.*, Vol. 281, pp. 27; doi: 10.1093/mnras/281.1.27

Petrov, A. Z., 1961: On a Geodesic Representation of Einstein Spaces, *Izv. Vyssh. Uchebn. Zaved. Mat.*, Vol. 1961, No. 2, pp. 130-136

Picon, C. A., Mukhanov, V. and Steinhardt, P. J., 2001: Essentials of k - Essence, *Phys. Rev. D*, Vol. 63, 103510; doi: 10.1103/PhysRevD.63.103510; astro-ph/0006373

Pietro, E. D. and Claeskens, J., 2003: Future Supernovae Data and Quintessence Models, *Mon. Not. R. Astron. Soc.*, Vol. 341, pp. 1299

Pradhan, A. and Kumar, S. S., 2009a: Plane Symmetric Inhomogeneous Perfect Fluid Universe with Electromagnetic Field in Lyra Geometry, *Astrophys Space Sc.*, Vol. 321, No. 2, pp 137-146.

Pradhan, A. and Mathur, P., 2009b: Inhomogeneous Perfect Fluid Universe with Electromagnetic Field in Lyra Geometry, *Fizika B*, Vol. 18, No. 4, pp 243-264; (gr-qc/0806.4815)

Pradhan, A. and Singh, A. K., 2011b: Anisotropic Bianchi Type-I String Cosmological Models in Normal Gauge for Lyra's Manifold with Constant Deceleration Parameter, *Int. J. Theor. Phys.*, Vol. 50, No. 3, pp. 916; doi: 10.1007/s10773-010-0636-3.

Pradhan, A. and Vishwakarma, A. K., 2002: A New Class of LRS Bianchi Type-I Cosmological Models with Perfect Fluid, *Indian J. Pure Appl. Math.*, Vol. 33, pp.1239-1250

Pradhan, A. and Vishwakarma, A. K., 2004: A New Class of LRS Bianchi Type-I Cosmological Model in Lyra Geometry, *J. Geom. Phys.*, Vol. 49, No. 3-4, pp. 332-342

Pradhan, A. and Yadav, P., 2009c: Accelerated Lyra's Cosmology Driven by Electromagnetic Field in Inhomogeneous Universe, *Int. J. Math. Sci. (IJMMS)*, Vol. 2009, Article ID 471938, pp. 1-20; doi: 10.1155/2009/471938.

Pradhan, A., 2007: Magnetized String Cosmological Model in Cylindrically-Symmetric Inhomogeneous Universe with Variable Cosmological Term Λ , *Fizika B*, Vol. 16, No. 1, pp. 205-222

Pradhan, A., 2009: Cylindrically Symmetric Viscous Fluid Universe in Lyra Geometry, *J. Math. Phys.*, Vol. 50, No. 2, pp. 022501-022513

Pradhan, A., Amirhashchi, H. and Saha, B., 2011a: Bianchi Type-I Anisotropic Dark Energy Model with Constant Deceleration Parameter, *Int. J. Theor. Phys.*, Vol. 50, pp. 2923-2938

Pradhan, A., Amirhashchi, H. and Zainuddin, H., 2011c, A New Class of Inhomogeneous Cosmological Models with Electromagnetic Field in Normal Gauge for Lyra's Manifold, *Int. J. Theor. Phys.*, Vol. 50, No. 1, pp 56-69; doi: 10.1007/s10773-010-0493-0

Pradhan, A., and Aotemshi, I., 2003, Plane Symmetric Domain Wall in Lyra Geometry, *Astrophys. Space Sci.*, Vol. 288: pp. 315-325.

Pradhan, A., Saha, B. and Rikhvitsky, V., 2015, Bianchi Type-I Transit Cosmological Models with Time Dependent Gravitational and Cosmological Constants Reexamined, arXiv: 1308.4842v3 [physics.gen-ph] 5 Aug 2015.

Pradhan, A., Shahi, J. P. and Singh, C. B., 2006, Cosmological Models of Universe with Variable Deceleration Parameter in Lyra's Manifold, *Braz. J. Phys.*, Vol. 36, pp. 1227; doi: 10.1590/S0103-97332006000700020.

Pucheu, M. L., Alves Junior, F. A. P., Barreto, A. B. and Romero, C., 2016: Cosmological Models in Weyl Geometrical Scalar-Tensor Theory, *Phys Rev D*, Vol. 75, 064033; doi: 10.1103/PhysRevD.94.064010; arXiv: 1602.06966

Rador, T., 2007: Acceleration of the Universe via $f(R)$ Gravities and the Stability of Extra Dimensions, *Phys Rev D*, Vol. 75, 064033; doi: 10.1103/PhysRevD.75.064033

Ragab M. G. and Mazrooei, A. E. A., 2016: On Axially Symmetric Space-Times Admitting Homothetic Vector Fields in Lyra's Geometry, *Can. J. Phys.*, Vol. 94, pp. 1148-1152; dx.doi.org/10.1139/cjp-2016-0114

Ragab M. G., 2015: Homothetic Motion in a Bianchi Type-I Model in Lyra Geometry, *Int. J. Theor. Phys.*, Vol. 54, No. 8, pp. 2932-2941; doi: 10.1007/s10773-015-2528-z; arXiv: 1503.02097 [gr-qc]

Rahaman, F. et al., 2003: Higher Dimensional Homogeneous Cosmology in Lyra Geometry, *Pramana J. Phys.*, Vol. 61, No.1, pp. 153–159

Rahaman, F. et al., 2009a: Construction of an Electromagnetic Mass Model Using Quadratic Equation of State; arXiv: 0904.0189v3 [gr-qc]

Rahaman, F., Begum, N., Bag, G. and Bhui, B. C., 2005: Cosmological Model with Negative Constant Deceleration Parameter in Lyra Geometry, *Astrophys. Space Sci.*, Vol. 299, pp. 211-218; doi: 10.1007/s10509-005-5943-4

Rahaman, F., Bhui, B. C. and Bhui, B., 2006: Cosmological Model with a Viscous Fluid in a Kaluza-Klein Metric, *Astrophys. Space Sci.*, Vol. 301, pp. 47-49; doi: 10.1007/s10509-006-6304-7

Rahaman, F., Chakraborty, S. and Bera, J., 2002: Inhomogeneous Cosmological Model in Lyra Geometry, *Int. J. Mod. Phys. D*, Vol. 11, No. 9, pp. 1501-1504

Rahaman, F., Chakraborty, S., Begum, N., Hussain, M. and Kalam, M., 2003: Bianchi-IX String Cosmological Model in Lyra Geometry, *Pramana J. Phys.*, Vol. 60, No. 6, pp. 1153-1159; doi: 10.1007/BF02704282

Rahaman, F., Mal, S. and Kalam, M., 2009b: Vacuumless Topological Defects in Lyra Geometry, *Astrophys Space Sci.*, Vol. 319, pp. 169–175; doi: 10.1007/s10509-009-9979-8

Ram, S. and Priyanka, 2014: Spatially Homogeneous String Cosmological Models with Bulk Viscosity in $f(R, T)$ Gravity Theory, *EJTP*, Vol. 11, No. 31, pp. 203–220

Ram, S. and Singh, C. P., 1998: Anisotropic Bianchi Type II Cosmological Models in Self-Creation Cosmology, *Astrophys Space Sci.*, Vol. 257, pp. 287-292

Ram, S. and Singh, J. K., 1995: Some Spatially Homogeneous String Cosmological Models, *Gen. Rel. Grav*, Vol. 27, No. 11, pp. 1207-1213

Ram, S., Zeyauddin, M. and Singh, C. P., 2010: Anisotropic Bianchi Type-V Perfect Fluid Cosmological Models in Lyra's Geometry, *Journal of Geometry and Physics*, Vol. 60, No.11, pp. 1671–1680

Rao, V. U. M. and Kumari, G. S. D., 2012a: A Cosmological Model with Negative Constant Deceleration Parameter in a General Scalar-Tensor Theory of Gravitation, *Int J Theor Phys*, Vol. 51: pp. 311-315; doi: 10.1007/s10773-011-0909-5

Rao, V. U. M. and Neelima, D., 2013a: Axially Symmetric Space-Time with Strange Quark Matter Attached to String Cloud in Self Creation Theory and General Relativity, *Int J. Theor Phys.*, 52, No. 2, pp. 354-361; doi: 10.1007/s10773-012-1338-9

Rao, V. U. M. and Neelima, D., 2013b: LRS Bianchi Type-I Dark Energy Cosmological Models in General Scalar Tensor Theory of Gravitation, *ISRN Astron. Astrophys.*, Vol. 2013, Article ID 174741, 1; doi: 10.1155/2013/174741.

Rao, V. U. M. and Sanyasiraju, Y. V. S. S., 1992: Exact Bianchi Type-VIII & IX Models in the Presence of Zero Mass Scalar Fields, *Astrophys. Space Sci.*, Vol. 187, No. 1, pp. 113-117

Rao, V. U. M. and Vijaya Santhi, M., 2008a: Bianchi Type-V Cosmological Model with Perfect Fluid Using Negative Constant Deceleration Parameter in a Scalar tensor Theory Based on Lyra Manifold, *Astrophys. Space Sci.*, Vol. 314, No. 1-3, pp. 213-216; doi: 10.1007/s10509-008-9757-z

Rao, V. U. M. and Vijaya Santhi, M., 2012b: Bianchi Type-II, VIII and IX String Cosmological Models in Brans-Dicke Theory of Gravitation, *ISRN. Math. Phys.*, 16 pages, DOI: 10.5402/2012/573967

- Rao, V. U. M., Jayasudha, V. and Reddy, D. R. K., 2015: Five-Dimensional Cosmological Model with Quadratic Equation of State in a Scalar-Tensor Theory of Gravitation, *Prespacetime Journal*, Vol. 6, No. 9, pp. 787-793
- Rao, V. U. M., Vijaya Santhi, M. and Vinutha, T., 2008b: Exact Bianchi Type-II, VIII and IX String Cosmological Models in Saez-Ballester Theory of Gravitation, *Astrophys. Space Sci.*, Vol. 314, pp. 73-77
- Rao, V. U. M., Vijaya Santhi, M. and Vinutha, T., 2008c: Exact Bianchi Type-II, VIII and IX String Cosmological Models in General Relativity and Self Creation Theory of Gravitation, *Astrophys. Space Sci.*, Vol. 317, pp. 83
- Rao, V.U.M. and Sireesha, K.V.S., 2016: Axially Symmetric Holographic Dark Energy Model with Generalized Chaplygin Gas in Brans-Dicke Theory of Gravitation, *Can. J. Phys.*, Vol. 94, pp. 1331–1337: doi-10.1139/cjp-2016-0339
- Reddy, D. R. K. and Innaiah, P., 1985: An Anisotropic Cosmological Model in Lyra's Manifold, *Astrophys. Space Sci.*, Vol. 114, No. 2, pp. 285-288
- Reddy, D. R. K. and Venkateswarlu, R., 1987: Birkhoff-Type Theorem in the Scale Covariant Theory of Gravitation, *Astrophys Space Sci*, Vol. 136, No. 1, pp 191-194
- Reddy, D. R. K. and Venkateswarlu, R., 1989: Bianchi Type-VI₀ Model in the Lyttleton-Bondi Universe, *Astrophys Space Sci.*, Vol. 154, pp. 115-118
- Reddy, D. R. K., 1973: On Birkhoff's Theorem in Scalar-Tensor Theory of Gravitation, *J. Phys. A: Math. Nuclear Gen.*, Vol. 6, No. 12, pp. 1867-1870
- Reddy, D. R. K., 1977: On Birkhoff's Theorem for Electromagnetic Fields in a Scalar-Tensor Theory of Gravitation, *J. Phys. A: Math. Gen.*, Vol. 10, pp. 185-188

- Reddy, D. R. K., Adhav, K. S. and Purandare M. A., 2015: Bianchi type-I cosmological model with quadratic equation of state, *Astrophys Space Sci*, Vol. 20, pp. 357
- Reddy, D. R. K., and Innaiah, P., 1986: A Plane Symmetric Cosmological Model in Lyra Manifold, *Astrophys Space Sci*, Vol. 123, No. 1, pp. 49-52
- Reddy, D. R. K., Naidu, R. L. and Adhav, K. S., 2007a: A Cosmological Model with a Negative Constant Deceleration Parameter in Scale-Covariant Theory of Gravitation, *Astrophys Space Sci.*, Vol. 307, pp. 365-367, 2007; doi: 10.1007/s10509-006-9282-x
- Reddy, D. R. K., Naidu, R. L. and Rao, V. U. M., 2007b: A Cosmological Model with Negative Constant Deceleration Parameter in Brans-Dicke Theory, *Int. J. Theor. Phys.*, Vol. 46, No. 6, pp. 1443-1448; doi: 10.1007/s10773-006-9283-0
- Reddy, D. R. K., Rao, M. V. S. and Rao, G. K., 2006: A Cosmological Model with Negative Constant Deceleration Parameter in Scalar-Tensor Theory, *Astrophys Space Sci.*, Vol. 306, pp. 171-174; doi: 10.1007/s10509-006-9210-0
- Richard, Tolman, C., 1934: *Relativity, Thermodynamics and Cosmology*, Oxford, Clarendon Press.
- Riess, A. G. et al., 1998: Observational Evidence from Supernovae for an Accelerating Universe and a Cosmological Constant, *Astronom. J.*, Vol. 116, No. 3, pp. 1009-1038
- Riess, A. G. et al., 2004: Type Ia Supernova Discoveries at $z > 1$ From the Hubble Space Telescope: Evidence for Past Deceleration and Constraints on Dark Energy Evolution¹, *Astrophys. J. (ApJ)*, Vol. 607, pp. 665-687
- Romano, V., 1993: Casual Dissipative Bianchi Cosmology, *Phys. Rev. D*, Vol. 47, No. 4, pp. 1396-1403

Rosen, G., 1964: Spatially Homogeneous Solutions to the Einstein-Maxwell Equations, *Phys. Rev.*, Vol. 136, No. 1B, pp. B297-B298

Rosen, N., 1982: Weyl's Geometry and Physics, *Found Phys.*, Vol. 12, No. 3, pp. 213-248; DOI: 10.1007/BF00726849

Rosen, N., 1983: The Bimetric Weyl-Direc Theory and Gravitational Constant, *Foundations of Phys.*, Vol. 13, No. 3, pp. 363-372; doi: 10.1007/BF01906184

Roy Choudhury, A. K., Banerjee, S. and Banerjee, A., 2003: *General Relativity, Astrophysics and Cosmology*, Springer Publisher.

Roy, S. R. and Banerjee, S. K., 1995: Bianchi Type- II String Cosmological Model in General Relativity, *Class. Quantum Grav.*, Vol. 12, pp. 1943-1948

Saadat, H., 2016: A cosmological Model of the Early Universe Based on ECG with Variable Λ -term in Lyra Geometry, *Int. J. Theor. Phys.*, Vol. 55, No. 5, pp. 2364-2375; arXiv : 1508.06544v1 [gr-qc] 24

Saadeh, D. et al., 2016: How Isotropic is the Universe, *Phys. Rev. Lett.*, Vol. 117, 131302; doi: 10.1103/PhysRevLett.117.131302; arXiv: 1605.0718v2 [astro-ph] 7 Sep (2016).

Sadeghi, J., Pourhassan, B., Abbaspour Moghaddam, Z., 2014: Interacting Entropy-Corrected Holographic Dark Energy and IR Cut-Off Length, *Int. J. Theor. Phys.*, Vol. 53, No. 1, pp. 125-135; doi: 10.1007/s10773-013-1790-1

Saez, D. and Ballester, V. J., 1985: A Simple Coupling with Cosmological Implications, *Physics Letter A*, Vol. 113, No. 9, pp. 467-470; doi: 10.1016/0375-9601(86)90121-0

Saha, B. and Boyadjiev, T., 2004: Bianchi Type-I Cosmology with Scalar and Spinor Fields, *Phys. Rev. D*, 124014—published 2 June 2004

Saha, B., 2005: Anisotropic Cosmological Models with Perfect Fluid and Dark Energy Reexamined, *Int. J. Theor. Phys.*, Vol. 45, No. 5, pp. 983-995

- Saha, B., Amirhashchi, H. and Pradhan, A., 2012: Two-Fluid Scenario for Dark Energy Models in an FRW Universe-Revisited, *Astrophys. Space Sci.*, Vol. 342, pp. 257-267; doi: 10.1007/s10509-012-1155-x
- Sahni, V. and Starobinsky, A. A., 2000: The Case for a Positive Cosmological Λ Term, *Int. J. Mod. Phys. D*, Vol. 9, pp. 373-443; doi: 10.1142/S0218271800000542; [astro-ph/9904398]
- Sahoo, P. K. and Mishra, B., 2014: Axially Symmetric Cosmological Model with Anisotropic Dark Energy, *Eur. Phys. J. Plus*, Vol. 129, 196, (8 pages)
- Sahoo, P. K. and Mishra, B., 2015: Higher-Dimensional Bianchi Type-III Universe with Strange Quark Matter Attached to String Cloud in General Relativity, *Turk J Phys*, Vol. 39, pp. 43- 53; doi: 10.3906/fiz-1403-5
- Sahoo, P. K. et al., 2016: Bianchi type string cosmological models in $f(R, T)$ gravity, *Eur. Phys. J. Plus*, Vol. 131, pp. 333; DOI 10.1140/epjp/i2016-16333-x
- Sahoo, P. K., Nath, A. and Sahu, S. K., 2017: Bianchi Type-III String Cosmological Model with Bulk Viscous Fluid in Lyra Geometry, *Iran. J. Sci. Technol. Trans. Sci*, Vol. 41, No. 1, pp. 243-248
- Sahu, R. C. and Panigrahi, U. K., 2003: Bianchi Type-I Vacuum Models in Modified Theory of General Relativity, *Astrophys Space Sci.*, Vol. 288, pp. 601-610
- Sahu, S. K. and Kumar, T, 2013: Tilted Bianchi Type-I Cosmological Model in Lyra Geometry, *Int. J. Theor. Phys.*, Vol. 52, No. 3, pp. 793-797
- Samanta, G. C., 2013: Bianchi Type-III Cosmological Models with Anisotropic Dark Energy in Lyra Geometry, *Int. J. Theor. Phys.*, Vol. 52, No. 10, pp. 3442-3456

Saridakis, E.N. and Sushkov, S.V., 2010: Quintessence and Phantom Cosmology with Nonminimal Derivative Coupling, *Phys. Rev. D*, 81, 083510; doi: 10.1103/PhysRevD.81083510

Saridakis, E.N., 2008: Holographic Dark Energy in Braneworld Models with Moving Branes and the $\omega = -1$ Crossing, *JCAP*, Vol. 0804, pp. 020; doi: 10.1088/1475-7516/2008/04/020

Sawicki, A. and Vikman, A., 2013: Hidden Negative Energies in Strongly Accelerated Universe, *Phys. Rev. D*, Vol. 87, 067301; doi: 10.1103/PhysRevD.87.067301

Scheibe, E., 1952: Über-einen Verallgemeinerten Affinen Zusammenhang, *Math. Z.*, Vol. 57, pp. 65-74; doi: 10.1007/BF01192916

Schmidt, B. P. et al., 1998: The High-Z Supernova Search: Measuring Cosmic Deceleration and Global Curvature of the Universe Using Type IA Supernovae, *Astrophys. J.*, Vol. 507, pp. 46-63; doi: 10.1086/306308

Schwarz, J. H., 2001: The Future of String Theory, *J. Math. Phys.*, Vol. 42, No. 7, pp. 2889-2895; DOI: 10.1063/1.1377276

Seljak, U. et al., 2005: Cosmological Parameter Analysis Including SDSS Ly α Forest and Galaxy Bias: Constraints on the Primordial Spectrum of Fluctuations, Neutrino Mass, and Dark Energy, *Phys. Rev. D*, Vol. 71, 103515; doi: 10.1103/PhysRevD.71.103515

Sen, A. A. and Devi, N. C., 2008: Cosmological Scaling Solutions with Tachyon: Modified Gravity Model, *Physics Letters B*, Vol. 668, pp. 182-186; doi: 10.1016/j.physletb.2008.08.038

Sen, D. K. and Dunn, K. A., 1971: A Scalar-Tensor Theory of Gravitation in a Modified Riemannian Manifold, *J. Math. Phys.*, Vol. 1216, No.4, pp. 578-586; doi:10.1063/1.1665623

Sen, D. K. and Vanstone, J. R., 1972: On Weyl and Lyra Manifolds, *J. Math. Phys.*, Vol. 13, No. 7, pp. 990-993; DOI: 10.1063/1.1666099

Sen, D. K., 1957: A Static Cosmological Model, *Z. Phys.*, Vol. 149, No. 3, pp. 311-323

Sen, D. K., 1960: On Geodesics of a Modified Riemannian Manifold, *Canad. Math. Bull.*, Vol. 3, pp. 255-261

Setare, M. R., and Saridakis, E. N., 2008: Coupled Oscillators as Models of Quintom Dark Energy, *Phys. Lett. B*, Vol. 668, No. 3, pp. 177-181; doi: 10.1016/j.physletb.2008.08.033

Shapiro, I. L., Sola, J. 2009: On the Possible Running of the Cosmological "Constant", *Phys. Lett. B*, Vol. 682, pp. 105-113; doi: 10.1016/j.physletb.2009.10.073

Sharma, R. and Ratanpal, B. S., 2013: Relativistic Stellar Model Admitting a Quadratic Equation of State, *Int. J. Mod. Phys. D*, Vol. 22, No. 13, 1350074 (15 pages); DOI: 10.1142/S0218271813500740

Sharma, R., Maharaj, S. D., 2007: A Class of Relativistic Stars with a Linear Equation of State, *Mon. Not. R. Astron. Soc.*, Vol. 375, pp. 1265-1268; doi: 10.1111/j.1365-2966.2006.11355.x

Shchigolev, V. K., 2013: Cosmology with an Effective Λ -Term in Lyra Manifold, *Chin. Phys. Lett.*, Vol. 30, No. 11, 119801(5 pages); doi: 10.1008/0256-307X/30/11/119801; arXiv: 1307.1866v1 [gr-qc] 7 Jul (2013)

Shchigolev, V.K. and Semenova, E.A., 2012: Scalar Field Cosmology in Lyra's Geometry, *Int. J. Adv. Astron.*, Vol. 3, No. 2, pp. 117-122; doi: 10.14419/ijaa.v3i2.5401; arXiv: 1203.0917v1 [gr-qc] 5 Mar 2012

Sievers, J. L. et al., 2013: The Atacama Cosmology Telescope: Cosmological Parameters from Three Seasons of Data, JCAP, Vol. 1310, pp. 060; doi: 10.1088/1475-7516/2013/10/060; arXiv: 1301.0824 [astro-ph.CO]

Sil, A. and Chatterjee, S., 1994: Singularity Structure of a Self-Similar Tolman Type Model in a Higher-Dimensional Space Time, Gen. Rel. Grav., Vol. 26, No. 10, pp. 999-1009; doi: 10.1007/BF02106667

Silbergleit, A.S., 2016: Gravity and Cosmology with Interacting Dark Energy, arXiv: 1602.01705v2 [gr-qc] 21 Mar 2016

Silk, J., 1989: The Big Bang, Freeman and Company, New York (1989)

Singh, C.P. and Beesham, A., 2014: Magnetized Viscous Fluid Anisotropic Models in String Cosmology, Universal Journal of Physics and Application, Vol. 2, No. 3, pp. 171-181

Singh, G. P. and Desikan, K., 1997: A New Class Cosmological Models in Lyra Geometry, Pramana J. Phys., Vol. 49, No. 2, pp. 205-212

Singh, G. P. and Singh, T., 1999: String Cosmological Models with Magnetic Field, Gen. Rel. Grav., Vol. 31, No. 3, pp. 371-378

Singh, G. P., Bishi, B. K. and Sahoo, P. K., 2016a: Bianchi Type-I Bulk Viscous Cosmology with Chaplygin gas in Lyra Geometry, Chin. J. Phys., Vol. 54, No. 6, pp. 895-905; doi: 10.1016/j.cjph.2016.10.005

Singh, G. P., Bishi, B. K. and Sahoo, P. K., 2016b: Scalar Field and Time Varying Cosmological Constant in $f(R, T)$ gravity for Bianchi Type-I Universe, Chinese Journal of Physics, 54, pp. 244-255, doi: 10.1016/j.cjph.2016.04.010

Singh, J. K. and Sharma, N. K., 2014: Anisotropic Dark Energy Bianchi Type-II Cosmological Models in Lyra Geometry, Vol. 53, No. 4, pp. 1375-1386

- Singh, K. P., and Mollah, M. R., 2016: Higher Dimensional LRS Bianchi type - I Cosmological Model Universe Interacting with Perfect Fluid in Lyra Geometry, *The African Rev. Phys.*, Vol. 11, No. 0006, pp. 33-38
- Singh, K. P., 2015: Some Cosmological Models in B-D Theory with Constant Deceleration Parameter, *Prespacetime Journal*, Vol 6, No. 10, pp 984-991
- Singh, R. S. and Singh, A., 2012: A New Class of Magnetized Inhomogeneous Cosmological Models of Perfect Fluid Distribution with Variable Magnetic Permiability in Lyra Geometry, *Electronic Journal of Theoretical Physics*. Vol. 9, No. 26, pp 265-282.
- Singh, T. and Agarwal, A. K., 1993a: Bianchi-Type Cosmological Models in Lyra's Geometry with Constant Deceleration Parameter, *Nuovo Cimento*, Vol. 108 B, No. 5, pp 541-558
- Singh, T. and Agrawal, A. K., 1992a: Bianchi Type II, VIII, and IX Cosmological Models in Lyra's Geometry, *Int. J. Theor. Phys.*, Vol. 31, No. 3, pp. 553-573
- Singh, T. and Rai, L. N., 1979: On a Birkhoff Type Theorem in a Scalar-Tensor Theory of Gravitation, *Indian J. Pure Appl. Math.*, Vol. 10, No. 11, pp. 1432-1436
- Singh, T. and Rai, L. N., 1983: Scalar-Tensor Theories of Gravitation: Foundations and Prospects, *Gen. Rel. Grav.*, Vol. 15, pp. 875-898; doi: 10.1007/BF00778789
- Singh, T. and Singh, G. P., 1991a: Bianchi Type-I Cosmological Models in Lyra's Geometry, *J. Math. Phys.*, Vol. 32, No. 3, pp. 2456-2458
- Singh, T. and Singh, G. P., 1991b: Bianchi Type III and Kantowski-Sachs Cosmological Models in Lyra's Geometry, *Astrophys. Space Sci.*, Vol. 181, No. 1, pp. 89-101

- Singh, T. and Singh, G. P., 1991c: Bianchi Type V and VI₀ Cosmological Models in Lyra's Geometry, *Astrophys. Space Sci.*, Vol. 182, No. 2, pp. 189-200
- Singh, T. and Singh, G. P., 1991d: Some Cosmological Models with Constant Deceleration Parameter, *IL. Nuovo Cimento B*, Vol. 106, No.6, pp. 617-622
- Singh, T. and Singh, G. P., 1992b: Bianchi Type III and Kantowski-Sachs Cosmological Models in Lyra's Geometry, *Int. J. Theor. Phys.*, Vol. 31, No. 8, pp. 1433-1446
- Singh, T. and Singh, G. P., 1993b: Lyra's Geometry and Cosmology: A Review, *Fortschritte der Physik*, 41, No.8, pp. 737-764; doi: 10.1002/prop.2190410804
- Singh, T., 1975: Cylindrically Symmetric Solutions of a Scalar-Tensor Theory of Gravitation, *J. Math. Phys.*, Vol. 16, No. 12, pp. 2517-2519
- Singha, A. K. and Debnath, U., 2008: Acceleration Universe with a Special Form of Deceleration Parameter, *Int. J. Theor. Phys.*, Vol. 48, pp. 351; doi: 10.1007/s10773-008-9807-x
- Sola, J., Stefancic, H., 2005: Effective Equation of State for Dark Energy: Mimicking Quintessence and Phantom Energy through a Variable Λ , *Phys. Lett. B*, Vol. 624, pp. 147
- Soleng, H. H., 1987: Cosmologies based on Lyra's geometry, *Gen. Rel. Grav.*, Vol. 19, No. 12, pp. 1213-1216; doi:10.1007/BF00759100
- Sotiriou, T. P. and Faraoni, V., 2010: $f(R)$ Theories of Gravity, *Rev. Mod. Phys.*, 82, No. 1, pp. 451-497; doi: 10.1103/RevModPhys.82.451; arXiv: 0805.1726v4 [gr-qc] 4 Jun 2010

Spergel, D. N. et al., 2003: First-Year Wilkinson Microwave Anisotropy Probe (WMAP)¹ Observations : Determination of Cosmological Parameters, *Astrophys. J. Suppl.*, Vol. 148, pp. 175-194

Spergel, D. N. et al., 2007, Three-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Implications for Cosmology, *Astrophys. J. Suppl.*, Vol. 170, No. 2, pp. 377-408

Stachel, J., 1980: Thickening theString. I. TheString Perfect Dust, *Phys. Rev. D.*, Vol. 21, No. 8, pp. 2171-2181

Steinhardt, P. J., Wang, L., Zlatev, I., 1999: Cosmological Tracking Solutions, *Phys. Rev. D*, Vol. 59, 123504; doi: 10.1103/PhysRevD.59.123504

Story, K. T. et al., 2013: A Measurement of the Cosmic Microwave Background Damping Tail from the 2500-Square-Degree SPT-SZ Survey, *Astrophys. J.*, Vol. 779, 86 (19pp); doi: 10.1088/0004-637X/779/1/86 arXiv: 1210.7231v2 [astro-ph.CO] 9 Dec 2013

Suzuki, N. et al., 2012: The Hubble Space Telescope Cluster Supernova Survey: V. Improving the Dark Energy Constraints Above $Z > 1$ and Building an Early-Type-Hosted Supernova Sample, *Astrophys. J.*, Vol. 746, 85, (27 pp); doi: 10.1088/0004-637X/746/1/85; arXiv: 1105.3470v1 [astro-ph.CO] 17 May 2011.

Szafron, D. A. and Collins, C. B., 1979: A New Approach to Inhomogeneous Cosmologies: Intrinsic Symmetries. II. Conformally Flat Slices and an Invariant Classification, *J. Math. Phys.*, Vol. 20, No. 11, pp. 2354-2361

Taub, A. H., 1951: Empty Space-Times Admitting a Three Parameter Group of Motions, *Annals of Mathematics, Second Series*, Vol. 53, No. 3, pp. 472-490

Tegmark, M. et al., 2004: Cosmological Parameters from SDSS and WMAP, *Phys. Rev. D*, Vol. 69, 103501; arXiv: astro-ph/0310723v2 15 Jan 2004

- Thirukkanesh, S., Maharaj, S. D., 2008: Charged Anisotropic Matter with a Linear Equation of State, *Class Quantum Grav*, Vol. 25, 235001 (14pp); doi: 10.1008/0264-9381/25/23/235001
- Thorne, K. S., 1967: Primordial Element formation, Primordial Magnetic Fields, and the Isotropy of the Universe, *Astrophys. J.*, Vol. 148, pp. 51-68
- Tikeker, R. and Patel, L. K., 1992: Some Exact Solution of String Cosmology in Bianchi III Space-Time, *Gen. Rel. Gra*, Vol. 24, No. 4, pp. 397-404
- Tikeker, R. and Patel, L. K., 1994: Some Exact Solutions in Bianchi VI₀ String Cosmology, *Pramana J. Phys.*, Vol. 42, No. 6, pp. 483-489
- Tikeker, R., Patel, L. K. and Dadhich, N., 1994: A Classof Cylindrically-Symmetric Models in String Cosmology, *Gen. Rel. Grav.*, Vol. 26, No. 7, pp. 647-653
- Tomimura, N., 1978: Evolution of Inhomogeneous Plane Symmetric Cosmological Models, *Il Nuovo Cimento B Series*, Vol. 44, No. 2, pp. 372-380
- Tonry, J. L. et al., 2003: Cosmological Results from High-z Supernovae, *Astrophys. J.*, Vol. 594, No. 1, pp. 1-24; doi: 10.1086/376865
- Tsujikawa, S., 2010: Modified Gravity Models of Dark Energy, *Lect. Notes Phys.*, Vol. 800, pp. 99-145, doi: 10.1007/978-3-642-10598-2_3; arXiv:1101.0191
- Tsujikawa, S., 2011a: Book-Dark Matter and Dark Energy, Chapter- Dark Energy: Investigation and Modeling, *Astrophys Space Sci (Series) Library*, Vol. 370, pp. 331-402; doi: 10.1007/978-90-481-8685-3
- Tsujikawa, S., 2011b: Dark energy: Investigation and Modeling; arXiv: 10041493; doi: 10.1007/978-90-481-8685-3_8

Varela, V., Rahaman, F., Ray, S., Chakraborty, K., Kalam, M., 2010: Charged Anisotropic Matter with Linear or Nonlinear Equation of State, *Phys. Rev. D*, Vol. 82, 044052; doi: 10.1103/PhysRevD.82.044052

Venkateswarlu, R. and Satish, J., 2014: LRS Bianchi Type-I Inflationary String Cosmological Model in Brans-Dicke Theory of Gravitation, *J. Grav. (Hindawi Publishing Corporation)*, Vol. 2014, Article ID 909374, 5 pages

Venkateswarlu, R., Satish, J. & Kumar, K. P., 2013: LRS Bianchi Type-III Massive String Cosmological Models in Scalar Theory of Gravitation, *Prespacetime J.*, Vol. 4, No. 3, pp. 321-332

Venketeswarlu, R. and Reddy, D. R. K., 1990: Bianchi Type-I Models in Self-Creation Theory of Gravitation, *Astrophys. Space Sci.*, Vol. 168, pp. 193-199

Vilenkin, A. and Shellard, E. P. S., 1994: *Cosmic Strings and Other Topological Defects*, Cambridge University Press, Cambridge

Vilenkin, A., 1981: Cosmic Strings, *Phys. Rev. D.*, Vol. 24, No. 8, pp. 2082-2089

Vilenkin, A., 1985: Cosmic String and Domain Walls, *Phys. Rept.*, Vol. 121, No. 5, pp. 263-315

Wald, R. W., 1983: Asymptotic Behavior of Homogeneous Cosmological Models in the Presence of a Positive Cosmological Constant, *Phys. Rev. D*, Vol. 28, 2118; DOI: 10.1103/PhysRevD.28.2118

Wang, B., Abdalla, E., Barandela, F. A. and Pavón, D., 2016: Dark Matter and Dark Energy Interactions: Theoretical Challenges, Cosmological Implications and Observational Signatures, *Rep. Prog. Phys.*, Vol. 79, 096901 (49pp); doi:10.1088/0034-4885/79/9/096901

Weinberg, S., 1972: *Gravitation and Cosmology*, John Wiley & Sons

- Wesson, P. S., 1992: A Physical Interpretation of Kaluza-Klein Cosmology, *Astrophys. J.*, Vol. 344, pp. 19-24
- Weyl, H., 1918a: Gravitation and Electricity, *Sitzungsber. Preuss Akad Wiss Berlin (Math Phys.)*, pp. 465-480.
- Weyl, H., 1918b: Vorlesungen über Allgemeine relativitätstheorie, *Sitzungsberichte Der Preussischen Academie Der Wissenschaften*, (Sitzungsberichte, Zu Berlin), pp. 465.
- Witten, E, 1995, String Theory Dynamics in Various Dimensions, *Nuclear Phys. B*, Vol. 443, No.1, pp. 85-126
- Xiang, W. X., 2006: Bianchi Type-III String Cosmological Model with Bulk Viscosity and Magnetic Field, *Chin. Phys. Lett*, Vol. 23, No.7, pp. 1702-1704
- Xu, L., Li, W. and Lu, J., 2009: Constraints on Kinematic Model from Recent Cosmic Observations: SN Ia, BAO and Observational Hubble Data, *JCAP*, Vol. 0907, pp. 031
- Xu, M. X., Harko, T. and Liang, S. D., 2016: Quantum Cosmology of $f(R, T)$ Gravity, *Eur. Phys. J. C*, Vol. 76, pp. 449; doi: 10.1140/epjc/s10052-016-4303-6
- Xu, Y. Y. and Zhang, X., 2016: Comparison of Dark Energy Models after Planck 2015, *Eur. Phys. J. C*, Vol. 76, pp. 588; doi: 10.1140/epjc/s10052-016-4446-5; arXiv: 1607.06262v3 [astro-ph.CO] 27 Oct 2016
- Yadav, A. K. and Haque, A., 2011: Lyra's Cosmology of Massive Strings in Anisotropic Bianchi-II Space-Time, *Int. J. Theor. Phys.*, Vol. 50, pp. 2850-2863
- Yadav, A. K., 2010: Lyra's Cosmology of Inhomogeneous Universe with Electromagnetic Field, *Fizika B*, Vol. 19, No. 2, pp. 53-80; arXiv:1004.1535 [gr-qc]

Yavuz, I and Tarhan, I, 1996: Some String Cosmological Models in Bianchi I Space-Time, *Astrophys Space Sci.*, Vol. 240, No.1, pp. 45-54

Yoo, J. and Watanabe, Y., 2012: Theoretical Models of Dark Energy, *Int. J. Mod. Phys. D*, Vol. 21, No. 12, 1230002 (53 pages); doi: 10.1142/S0218271812300029

Zel'dovich, Y. B., 1964: Newtonian and Einsteinian Motion of Homogeneous Matter, *Soviet Astronomy-AJ*, Vol. 8, pp. 700-707 (1965) [*Astronomicheskii zhurnal*, 41, 875 (1964)]

Zel'dovich, Y. B., 1965: Magnetic Model of the Universe, *Sviet Physics-JETP*, 21, 656

Zel'dovich, Y. B., Kobzarev, I. Y. and Okun, L. B., 1974: Cosmological Consequences of a Spontaneous Breakdown of a Discrete Symmetry, *Sov. Phys. JEPT*, Vol. 40, No. 1, pp. 1-5 [or, *Zh. Eksp. Teor. Fiz.* 67, pp. 3-11]

Zhang, J. F., Zhao, M. M., Li, Y. H. and Zhang, X., 2015: Neutrinos in the Holographic Dark Energy Model: Constraints from Latest Measurements of Expansion History and Growth of Structure, *JCAP*, Vol. 1504, pp. 038; arXiv: 1502.04028 [astro-ph.CO]

Zhang, X. and Wu, F.Q, 2007: Constraints on Holographic Dark Energy from Latest Supernovae, Galaxy Clustering, and Cosmic Microwave Background Anisotropy Observations, *Phys. Rev. D*, Vol. 76, 023502; [astro-ph/0701405]

Zhang, X. and Wu, F.Q., 2005: Constraints on Holographic Dark Energy from Type Ia Supernova Observations, *Phys. Rev. D*, Vol. 72, 043524; [astro-ph/0506310]

Zhang, X., 2005: State Finder Diagnostic for Coupled Quintessence, *Phys. Lett. B*, Vol. 611, pp. 1; [astro-ph/0503075]

Zia, R. and Singh, R.P., 2012: Bulk Viscous Inhomogeneous Cosmological Models with Electromagnetic Field in Lyra Geometry, *Rom. J. Phys.*, Vol. 57, No. 3-4, pp.761–778, Bucharest, 2012

Ziaepour, H., 2014: Classical, Quantum, and Phenomenological Aspects of Dark Energy Models; arXiv: 1411.0620v2 [gr-qc] 17 Dec (2014)

Ziaie, A. H., Ranjbar, A. and Sepangi, H. R., 2015: Trapped Surfaces and Nature of Singularity in Lyra Geometry, *Class. Quantum Grav.*, Vol. 32, 025010; doi: 10.1088/0264-9381/32/2/025010; arXiv: 1306.2601v2 [gr-qc] 10 Jan (2015)

Zlatev, I., Wang, L., and Steinhardt, P. J., 1999: Quintessence, Cosmic Coincidence, and the Cosmological Constant, *Phys. Rev. Lett.*, Vol. 82 , pp. 896-899; [astro-ph/9807002]