

# LIST OF PUBLICATIONS      Anirudh Pradhan

Prepared on April 30, 2010

## Published Papers:

1. *On wave solutions of the field equations of General Relativity containing electromagnetic field in generalized Peres-space-times* (K. B. Lal and **A. Pradhan**). Acc. Naz. Dei Lincei, series VIII, **Vol. LVIII**, No. 2 (1975), 215-219.
2. *Wave solutions of unified field theory of Israel and Trollope in a generalised Peres space-time* (K. B. Lal and **A. Pradhan**). Rev. de la Faculte des sc. de l'Univ. d'Istanbul, series A, **Vol. 40** (1975), 39-45.
3. *On plane wave-like solutions of Finzi's non-symmetric unified field theory* (K. B. Lal and **A. Pradhan**). Proc. Int. Symp. on Rel. and Unified field theory, S. N. Bose Inst. of Physical Sciences, Calcutta, India (1975-76), 191-194.
4. *On wave solutions of the field equations of general relativity containing zero-rest-mass scalar fields* (K. B. Lal and **A. Pradhan**). Acc. Naz. Dei Lincei, series VIII, **Vol. LXI**, No. 1-2 (1976), 109-114.
5. *On wave solutions of the unified field equations of Finzi in a generalized Peres space-time* (K. B. Lal and **A. Pradhan**). Rev. de la Fac. des. Sci., de'l Univ. d'Istanbul, **Vol. 41** (1976), 29-38.
6. *Some plane wave-like solutions of weakened fields equations in a generalised Peres space-time* (K. K. Lal and **A. Pradhan**). Ind. J. Pure Appl. Math., **Vol. 8**, No. 3 (1977), 268-272.
7. *On wave solutions of Gauge-Invariant generalization of field theories with a symmetric fundamental tensor in a generalized Peres space-time* (**A. Pradhan**). Ann. di Mat. Pura ed applicate (IV), **Vol. CXIV** (1977), 365-375.
8. *On wave solutions of the non-symmetric unified field theories* (**A. Pradhan**). Rev. Mat. Fisica Teorica, **Vol. XXVII** (1977).
9. *On wave solutions of Einstein's field equations of general relativity containing zero-rest-mass scalar fields* (K. B. Lal and **A. Pradhan**). Jour. Math. & Phys. Sci. **Vol. 11**, No. 6 (1977), 513-520.

10. *On the Generalized Peres space-time* (**A. Pradhan**). Jour. Math.& Phys. Sci. **Vol. 12**, No. 6 (1978), 547-557.
11. *On geometric properties of plane wave solutions in general relativity* (**A. Pradhan**). Rev. Math. Fisica Teorica (1978).
12. *Classical dynamics of matter and antimatter in scalar-tensor and time symmetric universe* (**A. Pradhan**). Proc. Mathematical Society, B. H. U., **Vol. 3** (1978), 223-230.
13. *On Rainich's unified field theory* (**A. Pradhan**). Proc. Mathematical Society, B. H. U. **Vol. 5** (1989), 192-193.
14. *Changing Concepts of the Universe* (**A. Pradhan**). Proc. of first Refresher Course Seminar in Mathematics, held by A. S. C., B. H. U. from March 27 to April 8, 1989, p. 41-51.
15. *Plane symmetric viscous fluid model* (**A. Pradhan**, R. V. Saraykar and A. Beesham). Astro. Lett. Commun. **Vol. 35**, (1997), 383-387.
16. *A new class of LRS Bianchi type-I cosmological models with variable  $G$  and  $\Lambda$*  (**A. Pradhan** and A. K. Vishwakarma). SUJST, **Vol. XII**, Sec.B, (2000), 42-48.

**Published Papers in 2001:**

17. *LRS Bianchi I cosmological model in the presence of zero-mass scalar fields* (**A. Pradhan**, K. L. Tiwari and A. Beesham). Ind. J. pure appl. Math. **Vol. 32**, No. 6, (2001), 789-795.
18. *LRS Bianchi I cosmological universe models with varying cosmological term  $\Lambda$*  (**A. Pradhan** and A. Kumar). Int. J. Mod. Phys. D **Vol. 10**, No. 3, (2001), 291-298. (IUCAA-24/2000).
19. *LRS Bianchi I cosmological models with perfect fluid* (**A. Pradhan** and A. Kumar) SUJST, **Vol. XIII**, Sec.B, (2001), 44-47.
20. *Bulk viscous FRW cosmology in Lyra geometry* (**A. Pradhan**, V.K.Yadav and I. Chakrabarty). Int. J. Mod. Phys. D, **Vol. 10**, No. 3, (2001), 339-349.
21. *LRS Bianchi I models with time varying gravitational and cosmological constants* (**A. Pradhan** and I. Chakrabarty). Gravitation & Cosmology, **Vol.7**, No.1(25), (2001), 55-57.

22. *Magnetized cylindrically symmetric universe with bulk viscosity* (I. Chakrabarty **A. Pradhan** and N. N. Saste). *Int. J. Mod. Phys. D*, **Vol. 10**, No. 5, (2001), 741-750.

**Published Papers in 2002:**

23. *A new class of LRS Bianchi type-I cosmological models with perfect fluid* (**A. Pradhan** and A. K. Vishwakarma). *Ind. J. pure appl. Math.*, **Vol. 33**, No. 8, (2002) 1239-1250.
24. *LRS Bianchi type-I cosmological models in Barbers's second self-creation theory* (**A. Pradhan** and A. K. Vishwakarma). *Int. J. Mod. Phys. D*, **Vol. 11**, No. 8, (2002), 1195-1207.
25. *Plane-symmetry inhomogeneous viscous fluid cosmological models with electromagnetic field* (**A. Pradhan**, V. K. Yadav and N. N. Saste). *Int. J. Mod. Phys. D*, **Vol. 11**, No. 6, (2002), 857-868.
26. *Bulk viscous anisotropic cosmological models with variable  $G$  and  $\Lambda$*  (**A. Pradhan** and V. K. Yadav). *Int. J. Mod. Phys. D*, **Vol. 11**, No. 6, (2002), 893-912.
27. *Plane symmetric cosmological models in the presence of zero-mass scalar fields* (**A. Pradhan** and H. R. Pandey). *Spacetime & Substance* **Vol. 2**(12), (2002), 76-80.
28. *Bulk viscous solutions to the field equations and the deceleration parameter-revisited* (**A. Pradhan** and Aotemshi I.). *Int. J. Mod. Phys. D*, **Vol. 11**, No. 9, (2002), 1419-1434. (gr-qc/0207023; IUCAA-32/2002).
29. *Conformally flat spherically symmetric cosmological models-revisited* (**A. Pradhan** and O. P. Pandey). *Spacetime & Substance* **Vol. 4**(14), (2002), 169-173. (gr-qc/0211008).

**Published Papers in 2003:**

30. *Higher dimensional cosmological models in Lyra geometry revisited* (**A. Pradhan**, G. P. Singh and S. Kotambkar). *Int. J. Mod. Phys. D*, **Vol. 12**, No. 5, (2003), 853-860.
31. *Plane symmetric inhomogeneous cosmological models with variable  $\Lambda$*  (**A. Pradhan** and H. R. Pandey). *Int. J. Mod. Phys. D*, **Vol. 12**, No. 5, (2003), 941-951. (gr-qc/0211002).

32. *Bianchi type-I anisotropic magnetized cosmological models with varying  $\Lambda$*  (**A. Pradhan** and O. P. Pandey). Int. J. Mod. Phys. D, **Vol. D12**, No. 7, (2003), 1299-1314. (gr-qc/0212109).
33. *Tilted Bianchi type I cosmological models filled with disordered radiation in general relativity revisited* (**A. Pradhan** and Abha Rai). Astrophys. Space Sci., **Vol. 286**, (2003), 347-358. (gr-qc/0212108).
34. *Plane symmetric domain wall in Lyra geometry* (**A. Pradhan**, Aotemshi I. and G. P. Singh). Astrophys. Space Sci., **Vol. 288** (2003), 315-325. (gr-qc/0207024).
35. *Bulk viscous cosmological models in Lyra geometry* (**A. Pradhan** and H. R. Pandey). gr-qc/0307038 (2003).

**Published Papers in 2004:**

36. *Some inhomogeneous magnetized viscous fluid cosmological models with varying  $\Lambda$*  (**A. Pradhan**, S. K. Srivastav and Kanti R. Jotania). Czech. J. Phys., **Vol. 54**, No. 2 (2004), 255-272. (gr-qc/0306039).
37. *A new class of LRS Bianchi type-I cosmological models in Lyra geometry* (**A. Pradhan** and A. K. Vishwakarma). preprint No. IUCAA-27/1999. J. Geom. Phys., **Vol. 49**, Issue 3-4 March (2004), 332-342.
38. *Viscous fluid cosmological models in LRS Bianchi type V universe with varying  $\Lambda$*  (**A. Pradhan**, L. Yadav and A. K. Yadav). Czech. J. Phys., **Vol. 54**, No. 4, (2004), 487-498.
39. *Bianchi type-I magnetofluid cosmological models with variable cosmological constant revisited* (**A. Pradhan** and Sanjay K. Singh). Int. J. Mod. Phys. D, **Vol. 13**, No. 3, (2004), 503-516. (gr-qc/0307058).
40. *Bulk viscous cosmological models in Barber's self creation theory* (**A. Pradhan** and H. R. Pandey). Indian J. pure appl. Math., **Vol. 35**, Issue 4, (2004), 513-523. (gr-qc/0207027).
41. *Tilted Bianchi type V bulk viscous cosmological models in general relativity Revisited.* (**A. Pradhan** and Abha Rai). Astrophys. Space Sci., **Vol. 291**, Issue 2, (2004), 149-160. (gr-qc/0307045).
42. *Generation of Bianchi type V cosmological models with varying  $\Lambda$ -term* (**A. Pradhan** and S. K. Singh). Spacetime & Substance, **Vol. 5**, No. 3(23), (2004), 97-103.

43. *Tilted Bianchi Type I universe for barotropic perfect fluid in general relativity* (A. Pradhan and O. P. Pandey). Spacetime & Substance, **Vol. 5**, No. 4(24), (2004), 149-153.

#### Published Papers in 2005:

44. *Generation of Bianchi type V cosmological models with varying  $\Lambda$ -term* (A. Pradhan, A. K. Yadav and L. Yadav). Czech. J. Phys., **Vol. 55**, No.4, (2005), 503-518. (gr-qc/0408070).
45. *Plane-symmetric inhomogeneous magnetized viscous fluid universe with a variable  $\Lambda$*  (A. Pradhan and Purnima Pandey). Czech. J. Physics, **Vol. 55**, No.6, (2005), 749-764. (gr-qc/0506113).
46. *Some homogeneous Bianchi type IX viscous fluid cosmological models with a variable  $\Lambda$*  (A. Pradhan, S. K. Srivastav and M. K. Yadav). Astrophys. Space Sci., **Vol. 298**, No. 3, (2005), 419-432. (gr-qc/0307039).
47. *Isotropic homogeneous universe with bulk viscous fluid in Lyra geometry* (A. Pradhan, Lallan Yadav and Anil Kumar Yadav). Astrophys. Space Sci., **Vol. 299**, No. 1, (2005), 31-42.
48. *Causal bulk viscous LRS Bianchi type I models with variable gravitational and cosmological "constant"* (A. Pradhan, P. Pandey, G. P. Singh and R. V. Deshpandey). Spacetime & Substance, **Vol. 6**, No. 3(28), (2005), 116-120. (gr-qc/0310023).
49. *Plane-symmetric magneto-fluid universe with time dependent cosmological term* (A. Pradhan, K. D. Thengane and Jyotsna K. Jumale). Spacetime & Substance, **Vol. 4(29)**, (2005), 145-150.

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50. *Some Bianchi type I viscous fluid cosmological models with a variable cosmological constant* (A. Pradhan and Purnima Pandey). Astrophys. Space Sci., **Vol. 301**, No. 1-4, (2006), 127-134. (gr-qc/0407112).
51. *Magnetized anisotropic cosmological models with varying  $\Lambda$*  (A. Pradhan, Purnima Pandey and K. K. Rai). Czech. J. Phys. **Vol. 56**, Issue March, (2006), 303-314.
52. *Higher dimensional dust cosmological implications of a decay law for a  $\Lambda$  term: expressions for some observable quantities* (G. S. Khadekar, A. Pradhan and M. R. Molaei). Int. Jour. Mod. Phys. D, **Vol. 15**, No. 1, (2006), 95-105. (gr-qc/0509074).

53. *Cylindrically symmetric inhomogeneous cosmological models with viscous fluid and varying  $\Lambda$*  (**A. Pradhan**, P. K. Singh and K. R. Jotania). Czech. J. Phys., **Vol. 56**, (2006), 641-660. (Priprint IUCAA- 50 /2004).
54. *Cosmological models with a variable  $\Lambda$  term in higher dimensional space-time* (**A. Pradhan**, G. P. Singh and S. Kotambkar). Fizika B, (Zagreb), **Vol. 15**, No. 1, (2006), 23-36.
55. *Plane symmetric inhomogeneous bulk viscous domain wall in Lyra geometry* (**A. Pradhan**, Vandana Rai and Saeed Otarod). Fizika B (Zagreb), **Vol. 15**, No. 2, (2006), 57-70. (gr-qc/0508087).
56. *Cosmological models of Universe with variable deceleration parameter in Lyra manifold* (**A. Pradhan**, J. P. Shahi and C. B. Singh). Braz. J. Phys., **Vol. 36**, No. 4A, (2006), 1227-1231. (gr-qc/0608070).
57. *Universe with time dependent deceleration parameter and  $\Lambda$  term in general relativity* (**A. Pradhan** and Saeed Otarod). Astrophys. Space Sci., **Vol. 306**, No. 1-2, (2006), 11-16. (gr-qc/0607129).
58. *Higher dimensional cosmological implications of a decay law for  $\Lambda$  term: expressions for some observable quantities* (**A. Pradhan**, G. S. Khadekar and Deepak Srivastava). Astrophys. Space Sci., **305**, No. 4, (2006), 415-421. (gr-qc/0506112).
59. *Spherically symmetric non-singular models with varying cosmological term  $\Lambda$*  (**A. Pradhan**, Kashika Srivastava and R. P. Singh). Fizika B (Zagreb), **Vol. 15**, No. 3, (2006), 141-156.
60. *Generation of Bianchi type V bulk viscous cosmological models with time dependent  $\Lambda$ -Term* (**A. Pradhan**, K. Jotania and Anju Rai). Fizika B (Zagreb), **Vol. 15**, No. 4, (2006), 163-182. (gr-qc/0611031).

#### Published Papers in 2007:

61. *Early viscous universe with variable gravitational and cosmological 'constants'* (C. P. Singh, Suresh Kumar and **A. Pradhan**). Class. Quantum Grav., **Vol. 24**, No. 2, (2007), 455-474.
62. *Bianchi type III string cosmological models with time dependent bulk viscosity* (R. Bali and **A. Pradhan**). Chinese Phys. Lett., **Vol. 24**, No. 2 (2007), 585-588. (gr-qc/0611018).
63. *F R W universe with variable G and  $\Lambda$ -terms* (**A. Pradhan**, A. K. Singh and S. Otarod). Roman. J. Phys., **Vol. 52**, No. 3-4, (2007), 445-458. (gr-qc/0608107).

64. *Plane symmetric inhomogeneous cosmological models with a perfect fluid in general relativity* (**A. Pradhan**, Purnima Pandey and Sunil K. Singh). Int. J. Theor. Phys., **Vol. 46**, No. 6, (2007), 1584-1596. (gr-qc/0610125).
65. *Five dimensional universe model with variable cosmological term Lambda and Big Bounce* (G. S. Khadekar, V. Kamdi, **A. Pradhan** and S. Otarod ). Astrophys. Space Sci., **310**, No. 1-2, (2007), 141-147.
66. *Bianchi Type I massive string magnetized barotropic perfect fluid cosmological model in General Relativity* (Raj Bali, U. K. Pareek and **A. Pradhan**). Chin. Phys. Lett., **Vol. 24**, No. 8, (2007), 2455-2458. (gr-qc/0704.0753).
67. *Plane symmetric bulk viscous domain wall in Lyra geometry* (**A. Pradhan**, K. K. Rai and A. K. Yadav). Braz. J. Phys., **Vol. 37**, No. 3B, (2007), 1084-1093.
68. *Some Bianchi type III string cosmological models with bulk viscosity* (M. K. Yadav, Anju Rai and **A. Pradhan**). Int. J. Theor. Phys., **Vol. 46**, No. 11, (2007), 2677-2687. (gr-qc/0611032).
69. *Plane symmetric viscous fluid models with varying  $\Lambda$ -term* (**A. Pradhan**, P. Pandey, K. Jotania and M. K. Yadav). Int. J. Theor. Phys., **46**, No. 11, (2007), 2774-2787.
70. *Tilted Bianchi type V bulk viscous cosmological models with varying  $\Lambda$ -term* (**A. Pradhan** and S. K. Srivataav). Roman. Rep. Phys., **Vol. 59**, No. 3, (2007), 749-762.
71. *Higher dimensional strange quark matter coupled to the string cloud with electromagnetic field admitting one parameter group of conformal motion* (**A. Pradhan**, G. S. Khadekar, M. Mishra and S. Kumbhare). Chin. Phys. Lett., **Vol. 24**, No. 10, (2007), 3013-3015.
72. *Magnetized anisotropic bulk viscous cosmological models with a variable  $\Lambda$ -term* (**A. Pradhan**, Saeed Otarod and Sheel K. Singh). Chines J. Phys., **Vol. 45**, No.5, (2007), 504-571.
73. *A new class of bulk viscous universe with time dependent deceleration parameter and  $\Lambda$ -term* (**A. Pradhan** and Saeed Otarod). Astrophys. Space Sci., **Vol. 311**, No. 4, (2007), 413-421.
74. *Some magnetized bulk viscous string cosmological models in general relativity* (M. K. Yadav, **A. Pradhan** and Sheel K. Singh). Astrophys. Space Sci., **Vol. 311**, No. 4, (2007), 423-429. (gr-qc/0708.3298).

75. *Bulk viscous cosmological models in general relativity* (**A. Pradhan**, Vandana Rai and R. S. Singh). *Fizika B (Zagreb)*, **Vol. 16**, No. 2, (2007), 99-112. (gr-qc/0512155).
76. *A new class of inhomogeneous string cosmological models in General Relativity* (**A. Pradhan**, A. K. Yadav, R. P. Singh and Vipin Kumar Singh). *Astrophys. Space Sci.*, **Vol. 312**, No. 3-4, (2007), 145-150. (gr-qc/0705.3619).
77. *Cylindrically symmetric inhomogeneous universe with electromagnetic field in string cosmology* (**A. Pradhan**, Anju Rai and Sheel K. Singh). *Astrophys. Space Sci.*, **Vol. 312**, No. 3-4, (2007), 261-265.
78. *Inhomogeneous perfect fluid universe with electromagnetic field* (**A. Pradhan**, Vineet K. Yadav, L. Yadav and A. K. Yadav). *Astrophys. Space Sci.*, **Vol. 312**, No. 3-4, (2007), 267-273.
79. *Nonsingular cosmological models with a variable cosmological term* (**A. Pradhan**, Kashika Srivastava and A. L. Ahuja). *Fizika B (Zagreb)*, **Vol. 16**, No. 3, (2007), 141-158. (gr-qc/0408057, IUCAA-29/2004).
80. *A new class of plane-symmetric inhomogeneous cosmological models of perfect fluid distribution with electromagnetic field* (**A. Pradhan**, A. K. Yadav and J. P. Singh). *Fizika B (Zagreb)*, **Vol. 16**, No. 4, (2007), 175-196.
81. *Magnetized string cosmological model in cylindrically symmetric inhomogeneous universe with variable cosmological-term  $\Lambda$*  (**A. Pradhan**). *Fizika B (Zagreb)*, **Vol. 16**, No. 4, (2007), 205-222. (gr-qc/0708.0107).

#### Published Papers in 2008:

82. *Magnetized string cosmological model in cylindrically symmetric inhomogeneous universe with time dependent cosmological-term  $\Lambda$*  (**A. Pradhan**, Kanti Jotania and Archana Singh). *Braz. J. Phys.*, **Vol. 38**, No. 1, (2008), 167-177.
83. *Can Bianchi type-II cosmological models with a decay law for  $\Lambda$  term be compatible with recent observations ?* (**A. Pradhan**, Deepak Srivastava and G. S. Khadekar). *Roman. Rep. Phys.* **Vol. 60**, No. 1, (2008), 3-12.
84. *Inhomogeneous bulk viscous fluid universe with electromagnetic field and variable  $\Lambda$ -term* (**A. Pradhan**, Vandana Rai and Kanti Jotania). *Commun. Theor. Phys.*, **Vol. 50**, No. 1, (2008), 279-288. (gr-qc/0807.4230).
85. *Bianchi type-I cosmological models with variable  $G$  and Lambda-term in General Relativity* (J. P. Singh, **A. Pradhan** and Ajay Kumar Singh). *Astrophys. Space Sci.*, **Vol. 314**, No. 1-3, (2008), 83-88. (gr-qc/0705.0459).



86. *Plane symmetric inhomogeneous cosmological models with a perfect fluid in General Relativity II* (**A. Pradhan** and Anju Rai). *Astrophys. Space Sci.*, **Vol. 314**, No. 1-3, (2008), 225-229.
87. *A new class of higher dimensional cosmological models of universe with variable  $G$  and  $\Lambda$ -term* (G. P. Singh, S. Kotambkar, Deepak Srivastava and **A. Pradhan**). *Roman. J. Phys.*, **Vol. 53**, No. 3-4, (2008), 607-618.
88. *Bianchi type  $VI_0$  magnetized barotropic bulk viscous fluid massive string universe in General Relativity* (Raj Bali, **A. Pradhan** and Hassan Amirhashchi). *Int. J. Theor. Phys.*, **Vol. 47**, No. 10, (2008), 2594-2604.
89. *Cylindrically symmetric inhomogeneous universe with electromagnetic field in string cosmology II* (**A. Pradhan**, Anju Rai and Sheel K. Singh). *Rom. J. Phys.*, **Vol. 53**, No. 7-8 (2008), 897-908.
90. *Kaluza-Klein type Friedmann-Robertson Walker cosmological models with dynamical cosmological term  $\Lambda$*  (**A. Pradhan**, G. S. Khadekar, Vrishali Patki and Saeed Otarod). *Int. J. Theor. Phys.*, **Vol. 47**, (2008), 1751-1763. (gr-qc/0508089, IUCAA-35/2005).
91. *String Cosmological Model in cylindrically symmetric inhomogeneous universe with electromagnetic field* (**A. Pradhan**, Sunil Kumar Singh and Lal Ji Singh Yadav). *Roman. Rep. Phys.*, **Vol. 60**, No. 4, (2008), 1013-1034. (gr-qc/0705.3623).
92. *A New class of Bianchi type I viscous fluid universe with a time dependent cosmological term* (**A. Pradhan**, Anju Rai and Saeed Otarod). *Fizika B (Zagreb)*, **Vol. 17**, No. 3, (2008), 393-404.
93. *Magnetized Bianchi type  $VI_0$  barotropic massive string universe with decaying vacuum energy density  $\Lambda$*  (**A. Pradhan** and R. Bali). *Elect. J. Theor. Phys. (EJTP)*, **Vol. 5**, No. 19, (2008), 91-104.
94. *Magnetized string cosmological model in cylindrically symmetric inhomogeneous universe revisited* (**A. Pradhan** and Priya Mathur). *Astrophys. Space Sci.*, **Vol. 318**, No. 3-4, (2008), 255-261.

**Published Papers in 2009:**

95. *Some magnetized bulk viscous string cosmological models in cylindrically symmetric inhomogeneous universe with variable  $\Lambda$ -term* (**A. Pradhan**). *Commun. Theor. Phys.*, **Vol. 51**, No. 2, (2009), 367-374.
96. *Thick domain walls with bulk viscosity* (**A. Pradhan**). *Commun. Theor. Phys.*, **Vol. 51**, No. 2, (2009), 378-384.

97. *Cylindrically symmetric viscous fluid universe in Lyra Geometry* (**A. Pradhan**). Jour. Math. Phys., **Vol. 50**, Issue 2, (2009), 022501-022513.
98. *LRS Bianchi type I universe in Barber's second self creation theory* (**A. Pradhan**, Shilpi Agarwal and G. P. Singh). Int. J. Theor. Phys., **Vol. 48**, No. 1, (2009), 158-166.
99. *String cosmology with magnetic field in cylindrically symmetric space-time-revisited* (**A. Pradhan**, Shilpi Agarwal and A. K. Yadav). Rom. J. Phys., **Vol. 54**, No. 1-2, (2009), 15-28.
100. *Plane symmetric inhomogeneous perfect fluid universe with electromagnetic field in Lyra Geometry* (**A. Pradhan** and S. S. Kumhar). Astrophys. Space Sci., **Vol. 321**, No. 2, (2009), 137-146.
101. *L R S Bianchi type II bulk viscous fluid universe with decaying vacuum energy density  $\Lambda$*  (**A. Pradhan** and S. S. Kumhar). Int. J. Theor. Phys., **Vol. 48**, No. 5, (2009), 1466-1477.
102. *Bianchi type V universe with bulk viscosity in General Relativity* (**A. Pradhan**, Vandana Rai and R. S. Singh). Rom. Rep. Phys., **Vol. 61**, No. 1, (2009), 27-42. (gr-qc/0612185).
103. *LRS Bianchi type II cosmological models for perfect fluid distribution in General Relativity* (**A. Pradhan**, Hassan Amirhashchi and M. K. Yadav). Fizika B, **Vol. 18**, No. 1, (2009), 35-42.
104. *Inhomogeneous perfect fluid universe with electromagnetic field in Lyra geometry* (**A. Pradhan** and Priya Mathur). Fizika B, **Vol. 18**, No. 4, (2009), 243-264. (gr-qc/0806.4815).
105. *Plane symmetric viscous fluid universe with decaying vacuum energy density  $\Lambda$*  (**A. Pradhan**). Fizika B, **Vol. 18**, No. 2, (2009), 61-80.
106. *String cosmological models in cylindrically symmetric inhomogeneous universe-revisited* (**A. Pradhan**, M. K. Mishra and A. K. Yadav). Rom. J. Phys., **Vol. 54**, No. 7-8, (2009), 747-762. (gr-qc/0705.1765).
107. *A new class of LRS Bianchi type - I cosmological models in Lyra's manifold* (**A. Pradhan** and D. S. Chauhan). JRAPS, **Vol. 8**, No. 2, (2009), 179-190. (gr-qc/0608056).
108. *A plane symmetric magnetized inhomogeneous cosmological models of perfect fluid distribution with variable magnetic permeability in Lyra geometry* (**A. Pradhan** and P. Ram). Int. J. Theor. Phys., **Vol. 48**, No. 11, (2009), 3188-3201.

109. *LRS Bianchi type II cosmological models for bulk viscous fluid distribution in General Relativity* (**A. Pradhan** and Sheel Kumar Singh). JRAPS, **Vol. 8**, No. 3, (2009), 349-360.
110. *Accelerated Lyra's cosmology driven by electromagnetic field in inhomogeneous universe* (**A. Pradhan** and Padmini Yadav). Int. J. Mathematical Sci.(IJMMS), **Vol. 2009**, Article ID 471938, 1-20. DOI: 10.1155/2009/471938.

#### Published Papers in 2010:

111. *Genesis of Dark Energy: Dark Energy as Consequences of Release and Two-stage Tracking of Cosmological Nuclear Energy* (R. C. Gupta and **A. Pradhan**).Int. J. Theor. Phys., **Vol. 49**, Issue 4, (2010), 821-834. DOI: 10.1007/s10773-010-0261-1; arXiv:0903.3636v2 [physics.gen-ph].
112. *Cylindrically symmetric inhomogeneous string cosmological models of perfect fluid distribution with electromagnetic field* (**A. Pradhan**, Rekha Singh and J. P. Shahi). EJTP, **Vol. 7**, No. 23, (2010), 197-212.

#### Papers Accepted for Publication:

113. *A plane symmetric magnetized inhomogeneous cosmological model of perfect fluid distribution with variable magnetic permeability* (**A. Pradhan**, Archana Singh and R. S. Singh). Rom. J. Phys., **Vol. 54**, No. 11-12, (2010).
114. *Some exact Bianchi type-V cosmological models in scalar tensor theory: Kinematic Tests* (**A. Pradhan** and Sheel Kumar Singh). EJTP, **Vol. 7**, No. 24, (2010).
115. *Some exact Bianchi type-V perfect fluid cosmological models with heat flow and decaying vacuum energy density  $\Lambda$ : expressions for some observable quantities* (**A. Pradhan** and K. Jotania). Int. J. Theor. Phys., DOI: 10.1007/s10773-010-0352-z.
116. *A plane-symmetric inhomogeneous cosmological model of perfect fluid distribution with electromagnetic field I* (**A. Pradhan**, P. K. Singh and A. K. Yadav). Commun. Theor. Phys., (gr-qc/0705.4411).

#### Papers Submitted for Publication:

117. *Cosmological Models in Lyra geometry: Kinematics tests* (G. S. Khadekar, **A. Pradhan** and Kashika Srivastav). (gr-qc/0508099).

118. *String cosmological models in cylindrically symmetric inhomogeneous universe with electromagnetic field* (**A. Pradhan**, Anju Rai and Raj Bali). (gr-qc/0705.0904).
119. *LRS Bianchi type - V viscous fluid universes with a time dependent cosmological term  $\Lambda$*  (**A. Pradhan**, J. P. Shahi and C. V. Singh). (gr-qc/0704.0849).
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