

List of Publications

April 10, 2012

Refereed Journals

125. “Evolution of Synchrotron X-rays in Supernova Remnants”
Ryoko Nakamura, Aya Bamba, Tadayasu Dotani, Manabu Ishida, Ryo Yamazaki,
Kazunori Kohri
Astrophys.J. 746 (2012) 134. [[arXiv:1112.0822 \[astro-ph.HE\]](#)]
124. “Vainstein mechanism in second-order scalar-tensor theories”
Antonio De Felice, Ryotaro Kase, Shinji Tsujikawa
Phys.Rev. D85 (2012) 044059. [[arXiv:1111.5090 \[gr-qc\]](#)]
123. “Cosmological perturbations of self-accelerating universe in nonlinear massive gravity”
A.Emir Gumrukcuoglu, Chunshan Lin, Shinji Mukohyama
JCAP 1203 (2012) 006. [[arXiv:1111.4107 \[hep-th\]](#)]
122. “Prospects for determination of thermal history after inflation with future gravitational wave detectors”
Sachiko Kuroyanagi, Kazunori Nakayama, Shun Saito
Phys.Rev. D84 (2011) 123513. [[arXiv:1110.4169 \[astro-ph.CO\]](#)]
121. “Phase transition and monopole production in supergravity inflation”
Kohei Kamada, Kazunori Nakayama, Jun'ichi Yokoyama
Phys.Rev. D85 (2012) 043503. [[arXiv:1110.3904 \[hep-ph\]](#)]
120. “Gauge-flation and Cosmic No-Hair Conjecture”
A. Maleknejad, M.M. Sheikh-Jabbari, Jiro Soda
JCAP 1201 (2012) 016. [[arXiv:1109.5573 \[hep-th\]](#)]
119. “Infra-red effects of Non-linear sigma model in de Sitter space”
Hiroyuki Kitamoto, Yoshihisa Kitazawa
Phys.Rev. D85 (2012) 044062. [[arXiv:1109.4892 \[hep-th\]](#)]
118. “Open FRW universes and self-acceleration from nonlinear massive gravity”.
A.Emir Gumrukcuoglu, Chunshan Lin, Shinji Mukohyama
JCAP 1111 (2011) 030. [[arXiv:1109.3845 \[hep-th\]](#)]
117. “On the Adiabatic Solution to the Polonyi/Moduli Problem”
Kazunori Nakayama, Fuminobu Takahashi, Tsutomu T. Yanagida

Phys.Rev. D84 (2011) 123523. [arXiv:1109.2073 [hep-ph]]

116. “Pathologies in Lovelock AdS Black Branes and AdS/CFT”

Tomohiro Takahashi, Jiro Soda.

Class.Quant.Grav. 29 (2012) 035008. [arXiv:1108.5041 [hep-th]]

115. “Relaxing the Higgs mass bound in singlet extensions of the MSSM”

Kazunori Nakayama, Norimi Yokozaki, Kazuya Yonekura

JHEP 1111 (2011) 021. [arXiv:1108.4338 [hep-ph]]

114. “Effective gravitational couplings for cosmological perturbations in the most general scalar-tensor theories with second-order field equations”

Antonio De Felice, Tsutomu Kobayashi, Shinji Tsujikawa

Phys.Lett. B706 (2011) 123-133. [arXiv:1108.4242 [gr-qc]]

★113. “Higgs mass and inflation”

Kazunori Nakayama, Fuminobu Takahashi

Phys.Lett. B707 (2012) 142-145. [arXiv:1108.3762 [hep-ph]]

112. “Primordial non-Gaussianities of gravitational waves in the most general single-field inflation model”

Xian Gao, Tsutomu Kobayashi, Masahide Yamaguchi, Jun'ichi Yokoyama

Phys.Rev.Lett. 107 (2011) 211301. [arXiv:1108.3513 [astro-ph.CO]]

★111. Low-scale Supersymmetry from Inflation.

Kazunori Nakayama, Fuminobu Takahashi

JCAP 1110 (2011) 033. [arXiv:1108.0070 [hep-ph]]

110. Non-Gaussianity from Curvatons Revisited.

Masahiro Kawasaki, Takeshi Kobayashi, Fuminobu Takahashi

Phys.Rev. D84 (2011) 123506 (erratum: ibid. D85 (2012) 029905)

[arXiv:1107.6011 [astro-ph.CO]]

109. Isocurvature perturbations in extra radiation.

Masahiro Kawasaki, Koichi Miyamoto, Kazunori Nakayama, Toyokazu Sekiguchi

JCAP 1202 (2012) 022. [arXiv:1107.4962 [astro-ph.CO]]

★108. NMSSM in gauge-mediated SUSY breaking without domain wall problem.

Koichi Hamaguchi, Kazunori Nakayama, Norimi Yokozaki

Phys.Lett. B708 (2012) 100-106. [arXiv:1107.4760 [hep-ph]]

★107. Inflationary non-Gaussianities in the most general second-order scalar-tensor theories.

Antonio De Felice, Shinji Tsujikawa

Phys.Rev. D84 (2011) 083504. [arXiv:1107.3917 [gr-qc]]

106. Curvature perturbation from velocity modulation.

Kazunori Nakayama, Teruaki Suyama

Phys.Rev. D84 (2011) 063520. [arXiv:1107.3003 [astro-ph.CO]]

105. Observational test of inflation in loop quantum cosmology.

Martin Bojowald, Gianluca Calcagni, Shinji Tsujikawa

JCAP 1111 (2011) 046. [arXiv:1107.1540 [gr-qc]]

104. Holographic Dual of de Sitter Universe with AdS Bubbles.

Sugumi Kanno, Misao Sasaki, Jiro Soda

Nucl.Phys. B855 (2012) 361-387. [arXiv:1107.1491 [hep-th]]

★103. Gravitino dark matter and baryon asymmetry from Q-ball decay in gauge mediation.

Shinta Kasuya, Masahiro Kawasaki

Phys.Rev. D84 (2011) 123528. [arXiv:1107.0403 [hep-ph]]

102. Temporal enhancement of superhorizon curvature perturbations from decays of two curvatons and its cosmological consequences.

Teruaki Suyama, Jun'ichi Yokoyama

Phys.Rev. D84 (2011) 083511. [arXiv:1106.5983 [astro-ph.CO]]

101. Chiral Phase Transitions around Black Holes.

Antonino Flachi, Takahiro Tanaka

Phys.Rev. D84 (2011) 061503. [arXiv:1106.3991 [hep-th]]

100. Phenomenology of Gravitational Aether as a solution to the Old Cosmological Constant Problem.

S. Aslanbeigi, G. Robbers, B. Z. Foster, Kazunori Kohri, N. Afshordi

Phys.Rev. D84 (2011) 103522. [arXiv:1106.3955 [astro-ph.CO]]

99. Parity Violation in Graviton Non-gaussianity.

Jiro Soda, Hideo Kodama, Masato Nozawa.

JHEP 1108, 067, 2011. [arXiv:1106.3228 [hep-th]]

98. Domain Walls and Gravitational Waves after Thermal Inflation.

Takeo Moroi, Kazunori Nakayama

Phys. Lett. B703, 160-166, 2011. [arXiv:1105.6216 [hep-ph]]

★97. Generalized G-inflation: Inflation with the most general second-order field equations.

Tsutomu Kobayashi, Masahide Yamaguchi, Jun'ichi Yokoyama

Prog.Theor.Phys. 126 (2011) 511-529. [arXiv:1105.5723 [hep-th]]

96. Chaotic inflation in modified gravitational theories.

Antonio De Felice, Shinji Tsujikawa, Joseph Elliston, Reza Tavakol

JCAP1108, 021, 2011. [arXiv:1105.4685 [astro-ph.CO]]

95. Black holes in braneworld models.

Norihiro Tanahashi, [Takahiro_Tanaka](#)

Prot. Theor. Phys. Suppl. 189, 227-268, 2011. [arXiv:1105.2997 [hep-th]]

94. Open inflation in the landscape.

Daisuke Yamauchi, Andrei Linde, Atsushi Naruko, Misao Sasaki, [Takahiro_Tanaka](#).

Phys. Rev. D84, 043513, 2011. [arXiv:1105.2674 [hep-th]]

93. Big-bang nucleosynthesis with a long-lived charged massive particle including 4 He spallation processes.

Toshifumi Jittoh, [Kazunori_Kohri](#), Masafumi Koike, Joe Sato, Kenichi Sugai, Masato Yamanaka, Koichi Yazaki.

Phys. Rev. D84, 035008, 2011. [arXiv:1105.1431 [hep-ph]]

92. Nonlinear superhorizon perturbations in Horava-Lifshitz gravity.

Keisuke Izumi, [Shinji_Mukohyama](#)

Phys. Rev. D84 (2011) 064025. [arXiv:1105.0246 [hep-th]]

★ 91. Differentiating CDM and Baryon Isocurvature Models with 21 cm Fluctuations.

[Masahiro_Kawasaki](#), Toyokazu Sekiguchi, Tomo Takahashi.

JCAP 1110 (2011) 028. [arXiv:1104.5591 [astro-ph.CO]]

90. Horava-Lifshitz gravity with $\lambda \rightarrow \infty$.

A.Emir Gumrukcuoglu, [Shinji_Mukohyama](#)

Phys. Rev. D83: 124033, 2011. [arXiv:1104.2087 [hep-th]]

89. “Black hole solutions in string theory”

Kei-ichi Maeda, Masato Nozawa

Prog.Theor.Phys.Suppl. 189 (2011) 310-350. [arXiv:1104.1849 [hep-th]]

88. Observational constraints on assisted k-inflation.

Junko Ohashi, [Shinji_Tsujikawa](#)

Phys. Rev. D83:103522, 2011. arXiv:1104.1565 [astro-ph.CO]

★87. Cosmological Aspects of Inflation in a Supersymmetric Axion Model.

[Masahiro_Kawasaki](#), Naoya Kitajima, [Kazunori_Nakayama](#)

Phys. Rev. D83: 123521, 2011. [arXiv:1104.1262 [hep-ph]]

86. Anisotropic Inflation with Non-Abelian Gauge Kinetic Function.

Keiju Murata, [Jiro_Soda](#)

JCAP 1106: 037, 2011. [arXiv:1103.6164 [hep-th]]

85. Primordial non-Gaussianity from G-inflation.

Tsutomu Kobayashi, Masahide Yamaguchi, [Jun'ichi_Yokoyama](#)

Phys. Rev. D83: 103524, 2011 [arXiv:1103.1740 [hep-th]]

★84. Dominance of gauge artifact in the consistency relation.

Takahiro Tanaka, Yuko Urakawa

JCAP 1105:014, 2011. [arXiv:1103.1251 [astro-ph.CO]]

83. Primordial non-Gaussianities in general modified gravitational models of inflation.

Antonio De Felice, Shinji Tsujikawa

JCAP 1104:029, 2011. [arXiv:1103.1172 [astro-ph.CO]].

82. A note on the role of the boundary terms for the non-Gaussianity in k-inflation.

Frederico Arroja, Takahiro Tanaka

JCAP 1105:005, 2011 [arXiv:1103.1102 [astro-ph.CO]]

81. Study of gravitational radiation from cosmic domain walls

Masahiro Kawasaki, Ken'ichi Saikawa,

JCAP 1109, 008, 2011. [arXiv:1102.5628]

★80. On the waterfall behavior in hybrid inflation

Hideo Kodama, Kazunori Kohri, Kazunori Nakayama,

Prog. Theor. Phys. 126 (2011), 331-350. [arXiv:1102.5612]

79. Number Theory Dark Matter

K. Nakayama, F. Takahashi, T. T. Yanagida,

Phys. Lett. B699 :360-363, 2011. [arXiv:1102.4688 [hep-ph]].

78. Cosmological constraints on dark matter models with velocity-dependent annihilation cross section

J. Hisano, M. Kawasaki, K. Kohri, T. Moroi, K. Nakayama, T. Sekiguchi,

Phys. Rev. D83: 123511, 2011. [arXiv:1102.4658 [hep-ph].]

★77. Stability of Schwarzschild-like solutions in f(R,G) gravity models.

Antonio De Felice, Teruaki Suyama, Takahiro Tanaka,

Phys. Rev. D83: 104038, 2011. [arXiv:1102.1521 [gr-qc]]

76. Probing the size of extra dimension with gravitational wave astronomy.

Kent Yagi, Norihiro Tanahashi, Takahiro Tanaka,

Phys. Rev. D, to be published. [arXiv:1101.4997 [gr-qc]]

75. A covariant approach to general field space metric in multi-field inflation

Jinn-Ouk Gong, Takahiro Tanaka,

JCAP 1103: 015, 2011. [arXiv:1101.4809 [astro-ph.CO]]

74. Observational constraints on loop quantum cosmology

M. Bojowald, G. Calcagni, S. Tsujikawa,

Phys. Rev. Lett. 107 (2011) 211302. [arXiv:1101.5391 [astro-ph.CO]]

★73. Why have supersymmetric particles not been observed?

F. Takahashi, T.T. Yanagida,

Phys.Lett. B698: 408-410, 2011. .[arXiv:1101.0867 [hep-ph]].

72. Future Oscillations around Phantom Divide in f(R) Gravity.

H. Motohashi, A.A. Starobinsky, J. Yokoyama,

JCAP 1106: 006, 2011. [arXiv:1101.0744 [astro-ph.CO]]

71. f(R) Gravity and its Cosmological Implications.

H. Motohashi, A. A. Starobinsky, J. Yokoyama,

Int. J. Mod. Phys. D20, 1347-1355, 2011. [arXiv:1101.0716 [astro-ph.CO]]

★70. The Gravitational Lensing Effect on the CMB Polarisation Anisotropy in the Lambda-LTB Model."

H. Goto, H. Kodama,

Prog. Theor. Phys. 125: 815-836, 2011. [arXiv:1101.0476 [astro-ph.CO]]

★69. Non-linear sigma model in de Sitter space

H. Kitamoto, Y. Kitazawa,

Phys. Rev. D83: 104043, 2011. [arXiv:1012.5930[hep-th]]

★68. Improved estimation of radiated axions from cosmological axionic strings

T. Hiramatsu, M. Kawasaki, T. Sekiguchi, M. Yamaguchi, J. Yokoyama,

Phys. Rev. D83: 123531, 2011. [arXiv:1012.5502 [hep-ph]]

67. Evolution of String-Wall Networks and Axionic Domain Wall Problem,

T. Hiramatsu, M. Kawasaki, K. Saikawa,

JCAP 1108, 030, 2011. [arXiv:1012.4558 [astro-ph.CO]].

66. Brane Holes

V. Frolov, S. Mukohyama,

Phys. Rev. D83, 044052:1-12, 2011 [arXiv:1012.4541 [hep-th]]

★65. Higgs G-inflation

K. Kamada, T. Kobayashi, M. Yamaguchi, J. Yokoyama,

Phys. Rev. D 83: 083515, 2011. [arXiv:1012.4238 [astro-ph.CO]]

64. Strong dynamics at the Planck scale as a solution to the cosmological moduli problem

F. Takahashi, T.T. Yanagida,

JHEP 1101:139, 2011. [arXiv:1012.3227 [hep-ph]]

63. Chiral Modulations in Curved Space I: Formalism

A Flachi, T Tanaka,

JHEP 1102: 026, 2011. [arXiv:1012.0463 [hep-th]]

62. Destruction of 7Be in big bang nucleosynthesis via long-lived sub-strongly interacting massive particles as a solution to the Li problem,"

M. Kawasaki, M. Kusakabe,

Phys. Rev. D 83: 055011, 2011. [arXiv:1012.0435 [hep-ph]].

61. Matter perturbations in Galileon cosmology”

A. De Felice, R. Kase, S. Tsujikawa,

Phys.Rev. D83: 043515, 2011. [arXiv:1011.6132 [astro-ph.CO]]

60. Full nonlinear growing and decaying modes of superhorizon curvature perturbations.

Y. Takamizu, J. Yokoyama,

Phys.Rev. D83: 043504, 2011. [arXiv:1011.4566 [astro-ph.CO]]

59. Running Spectral Index from Inflation with Modulations

T. Kobayashi , F. Takahashi,

JCAP 1101:026, 2011. [arXiv:1011.3988 [astro-ph.CO]]

★58. Imprints of Anisotropic Inflation on the CMB

M Watanabe, S Kanno, J Soda,

Mon. Not. Roy. Astron. Soc. 412:L83-L87, 2011 [arXiv:1011.3604 [astro-ph.CO]]

57. The gravitino problem in supersymmetric warm inflation

J. C.Bueno Sanchez, M. Bastero-Gil, A. Berera, K. Dimopoulos, K. Kohri,

JCAP 1103:020, 2011. [arXiv:1011.2398 [hep-ph]].

★56. Anisotropic Power-law Inflation

Sugumi Kanno, Jiro Soda, Masa-aki Watanabe,

JCAP 1012:024, 2010. [arXiv:1010.5307 [hep-th]]

★55. A theory of extra radiation in the Universe

K. Nakayama, F. Takahashi, T.T. Yanagida,

Phys.Lett. B697:275-279, 2011. [arXiv:1010.5693 [hep-ph]]

54. Chameleon dark energy models with characteristic signatures

R. Gannouji, B. Moraes, D. F. Mota, D. Polarski, S. Tsujikawa, H. A. Winther,

Phy. Rev. D 82:124006, 2010. [arXiv: 1010.3769 [astro-ph.CO]]

53. Kahler moduli double inflation

M. Kawasaki, K. Miyamoto,

JCAP 1102 :004, 2011. [arXiv:1010.3095 [astro-ph.CO]].

52. Observational constraints on Galileon cosmology.

Savvas Nesseris, Antonio De Felice, Shinji Tsujikawa,

Phys.Rev. D82:124054, 2010. [arXiv:1010.0407 [astro-ph.CO]]

51. The effect of varying sound velocity on primordial curvature perturbations.

Masahiro Nakashima, Ryo Saito, Yu-ichi Takamizu, Jun'ichi Yokoyama,

Prog. Theor. Phys. 125: 1035-1052, 2011. [arXiv:1009.4394 [astro-ph.CO]]

50. General Analysis of Inflation in the Jordan frame Supergravity.

Kazunori Nakayama, Fuminobu Takahashi,

JCAP 1011: 039, 2010. [arXiv:1009.3399 [hep-ph]]

★49. **Natural selection of inflationary vacuum required by infra-red regularity and gauge-invariance.**

Yuko Urakawa, Takahiro Tanaka,

Prog. Theor. Phys. 125: 1067-1089, 2011. [arXiv:1009.2947 [hep-th]]

48. **Ghost condensation and CPT violation in neutrino sector.**

Shinji Mukohyama, Seong Chan Park,

Phys.Lett. B696:505-508, 2011. [arXiv:1009.1251 [hep-ph]]

★47. **Inflation from a Supersymmetric Axion Model.**

Masahiro Kawasaki, Naoya Kitajima, Kazunori Nakayama,

Phys.Rev. D82:123531, 2010. [arXiv:1008.5013 [hep-ph]]

46. **Higgs Chaotic Inflation in Standard Model and NMSSM.**

Kazunori Nakayama, Fuminobu Takahashi,

JCAP 1102: 010, 2011. [arXiv:1008.4457 [hep-ph]]

45. **Generalized Galileon cosmology.**

Antonio De Felice, Shinji Tsujikawa,

Phys. Rev. D84 (2011) 124029. [arXiv:1008.4236 [hep-th]]

44. **Hilltop Supernatural Inflation and Gravitino Problem.**

Kazunori Kohri, Chia-Min Lin,

JCAP 1011: 010, 2010. [arXiv:1008.3200 [hep-ph]]

★43. **Running Kinetic Inflation.**

Kazunori Nakayama, Fuminobu Takahashi,

JCAP 1011:009, 2010. [arXiv:1008.2956 [hep-ph]]

★42. **Catastrophic Instability of Small Lovelock Black Holes.**

Tomohiro Takahashi, Jiro Soda,

Prog.Theor.Phys. 124:711-729, 2010. [arXiv:1008.1618 [gr-qc]]

41. **Affleck-Dine baryogenesis with modulated reheating.**

Kohei Kamada, Kazunori Kohri, Shuichiro Yokoyama,

JCAP 1101: 027, 2011. [arXiv:1008.1450 [astro-ph.CO]]

40. **Non-Gaussianity from Lifshitz Scalar.**

Keisuke Izumi, Takeshi Kobayashi, Shinji Mukohyama,

JCAP 1010: 031, 2010. [arXiv:1008.1406 [hep-th]]

39. **Master Equations for Gravitational Perturbations of Lovelock Black Holes in Higher Dimensions.**

Tomohiro Takahashi, Jiro Soda,

Prog.Theor.Phys. 124:911-924, 2010. [arXiv:1008.1385 [gr-qc]]

★38. **G-inflation: Inflation driven by the Galileon field.**

Tsutomu Kobayashi, Masahide Yamaguchi, Jun'ichi Yokoyama,

Phys.Rev.Lett. 105 :231302, 2010. [arXiv:1008.0603 [hep-th]]

37. **Horava-Lifshitz Cosmology: A Review.**

Shinji Mukohyama,

Class.Quant.Grav. 27: 223101, 2010. [arXiv:1007.5199 [hep-th]]

36. **Constraint on the gravitino mass in hybrid inflation.**

Kazunori Nakayama, Fuminobu Takahashi, Tsutomu T. Yanagida,

JCAP 1012: 010, 2010. [arXiv:1007.5152 [hep-ph]]

35. **Stability of Holographic Superconductors.**

Sugumi Kanno, Jiro Soda,

Phys.Rev. D82: 086003, 2010. [arXiv:1007.5002 [hep-th]]

34. **Cosmology of a covariant Galileon field.**

Antonio De Felice, Shinji Tsujikawa,

Phys. Rev. Lett. 105: 111301, 2010 [arXiv:1007.2700]

★33. **IR divergence does not affect the gauge-invariant curvature perturbation.**

Yuko Urakawa, Takahiro Tanaka,

Phys.Rev. D82: 121301, 2010. [arXiv:1007.0468 [hep-th]]

★32. **Linear Inflation from Running Kinetic Term in Supergravity.**

F Takahashi,

Phys.Lett.B693:140-143, 2010. [arXiv:1006.2801]

31. **Dark Matter from Split Seesaw.**

A Kusenko, F Takahashi, TT Yanagida,

Phys.Lett.B693:144-148, 2010. [arXiv:1006.1731]

★30. **Density perturbations in general modified gravitational theories.**

A De Felice, S Mukohyama, S Tsujikawa,

Phys.Rev.D82:023524, 2010. [arXiv:1006.0281]

29. **Matter power spectrum in f(R) gravity with massive neutrinos.**

H Motohashi, AA Starobinsky, J Yokoyama,

Prog.Theor.Phys. 124:541-546, 2010. [arXiv:1005.1171]

28. **Hawking Radiation from Fluctuating Black Holes.**

T Takahashi, J Soda,

Class.Quant.Grav.27:175008, 2010 .[arXiv:1005.0286]

27. **Discrete R Symmetries and Domain Walls.**

M Dine, F Takahashi, TT Yanagida,

JHEP 1007:003, 2010 .[arXiv:1005.3613]

26. Probing Variant Axion Models at LHC.

CR Chen, PH Frampton, F Takahashi, TT Yanagida,
JHEP 1006:059, 2010. [arXiv:1005.1185]

25. Generalized Brans-Dicke theories.

A De Felice, S Tsujikawa,
JCAP 1007:024, 2010. [arXiv:1005.0868]

24. Geometrically Consistent Approach to Stochastic DBI Inflation.

L Lorenz, J Martin, J Yokoyama,
Phys.Rev.D82:023515, 2010. [arXiv:1004.3734]

★23. Analytic formulae for the off-center CMB anisotropy in a general spherically symmetric universe.

H Kodama, K Saito, A Ishibashi,
Prog.Theor.Phys.124:163-180, 2010. [arXiv:1004.3089]

22. Boltzmann equation in de Sitter space.

Hiroyuki Kitamoto, Yoshihisa Kitazawa
Nucl.Phys. B839 (2010) 552-579. [arXiv:1004.2451]

21. Non-Gaussianity of superhorizon curvature perturbations beyond dN formalism.

Y Takamizu, S Mukohyama, M Sasaki, Y Tanaka,
JCAP 1006:019, 2010. [arXiv:1004.1870]

20. Trispectrum from Ghost Inflation.

K Izumi, S Mukohyama,
JCAP 1006:016, 2010. [arXiv:1004.1776]

19. Use of delta N formalism - Difficulties in generating large local-type non-Gaussianity during inflation -.

T Tanaka, T Suyama, S Yokoyama,
Class.Quant.Grav.27:124003, 2010 [arXiv:1003.5057]

★18. B-mode polarization induced by gravitational waves from kinks on infinite cosmic strings.

M Kawasaki, K Miyamoto, K Nakayama,
Phys.Rev. D82 :103504, 2010. [arXiv:1003.3701]

17. Numerical study of Q-ball formation in gravity mediation.

T Hiramatsu, M Kawasaki, F Takahashi,
JCAP 1006:008, 2010. [arXiv:1003.1779]

16. Effects of Light Fields During Inflation.

- T Kobayashi, S Mukohyama,
 Phys.Rev.D81:103504, 2010 [arXiv:1003.0076]
- 15. The Nature of Primordial Fluctuations from Anisotropic Inflation.**
 M Watanabe, S Kanno, J Soda,
 Prog.Theor.Phys.123:1041-1068, 2010. [arXiv:1003.0056]
- 14. f(R) theories.**
 Antonio De Felice, Shinji Tsujikawa,
 Living Rev.Rel.13:3, 2010. [arXiv:1002.4928] (Review, 136pp)
- 13. Analytic formulae for CMB anisotropy in LTB cosmology.**
 Keiki Saito, Akihiro Ishibashi, Hideo Kodama,
 Prog. Theor. Phys. 124:163-180, 2010. [arXiv:1002.3855 [astro-ph.CO]]
- 12. Gravitational Waves from Collapsing Domain Walls.**
 T Hiramatsu, M Kawasaki, K Saikawa,
 JCAP 1005:032, 2010. [arXiv:1002.1555]
- 11. Phantom boundary crossing and anomalous growth index of fluctuations in viable f(R) models of cosmic acceleration.**
 H. Motohashi, A.A. Starobinsky, J. Yokoyama,
 Prog.Theor.Phys.123:887-902, 2010. [arXiv:1002.1141 [astro-ph.CO]]
- 10. Gravitational waves from kinks on infinite cosmic strings.**
M. Kawasaki, K. Miyamoto, K. Nakayama,
 Phys.Rev.D81:103523, 2010. [arXiv:1002.0652]
- 9. Ghost Dark Matter.**
 T. Furukawa, S. Yokoyama, K. Ichiki, N. Sugiyama, S. Mukohyama,
 JCAP 1005:007, 2010. [arXiv:1001.4634]
- 8. Primordial Black Holes as All Dark Matter.**
 P.H. Frampton, M. Kawasaki, F. Takahashi, T.T. Yanagida,
 JCAP 1004:023, 2010. [arXiv:1001.2308]
- 7. Gravitational-Wave Constraints on the Abundance of Primordial Black Holes.**
 R. Saito, J. Yokoyama,
 Prog.Theor.Phys.123:867-886, 2010. [arXiv:0912.5317]
- 6. New cosmological constraints on primordial black holes.**
 B.J. Carr, Kazunori Kohri, Yuuiti Sendouda, Jun'ichi Yokoyama
 Phys.Rev. D81 (2010) 104019. [arXiv:0912.5297]
- 5. Cosmic Discordance: Detection of a modulation in the primordial fluctuation spectrum.**
 K. Ichiki, R. Nagata, J. Yokoyama,

Phys.Rev.D81:083010, 2010. [arXiv:0911.5108]

★4. Stellar center is dynamical in Horava-Lifshitz gravity.

K. Izumi, S. Mukohyama,

Phys.Rev.D81:044008, 2010. [arXiv: 0911.1814]

3. Matter instabilities in general Gauss-Bonnet gravity.

Antonio De Felice, David F. Mota, Shinji Tsujikawa,

Phys.Rev.D81:023532, 2010. [arXiv:0911.1811]

2. Gamma-ray Constraints on Hadronic and Leptonic Activities of Decaying Dark Matter.

C-R. Chen, S.V. Mandal, F. Takahashi

JCAP 1001:023, 2010. [arXiv:0910.2639].

1. Cosmological Magnetic Fields from Inflation and Backreaction.

S. Kanno, J. Soda, M. Watanabe,

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School Lectures

Axiverse and black hole

Hideo Kodama, Hirotaka Yoshino

Int. J. Mod. Phys. Conference Series, to be published (2011)

Lecture given at the 2011 Shanghai International School and Workshop on Gravitation, Shanghai, 10-14 Feb. 2011 [arXiv:1108.1365[hep-th]]

Modified gravity models of dark energy

S. Tsujikawa,

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