

## BIBLIOGRAPHY

- Adshead, P., Cui, Y., and Shelton, J., Chilly Dark Sectors and Asymmetric Reheating, *Journal of High Energy Physics*, **016** (2016)
- Akrami, Y., *et al.* [Planck Collaboration], *Planck 2018 Results. I. Overview and The Cosmological Legacy of Planck*, arXiv:1807.06205 [astro-ph].
- An, H., Chen, S., Mohapatra, R., and Zhang, Y., Leptogenesis as a Common Origin for Matter and Dark Matter, *Journal of High Energy Physics*, **2010** 124 (2010)
- Arfken, G., Weber, J., and Harris, F., 2012, *Mathematical Methods for Physicist: A Comprehensive Guide Seventh Edition*, Academic Press.
- Berezhiani, Z., Dolgov, A., and Mohapatra, R., Asymmetric Inflationary Reheating and the Nature of Mirror Universe, *Phys. Lett. B* **375** 26 (1996).
- Bertolami, O., Reheating via a Generalized Nonminimal Coupling of Curvature to Matter, *Phys. Rev. D* **83** 044010 (2011).
- Birrell, N., and Davies, P., 1982, *Quantum Fields in Curved Space*, Cambridge University Press.
- Carroll, S., 2004, *An Introduction to General Relativity Spacetime and Geometry*, Addison Wesley.
- Ciarcelluti, P., and Wallemacq, Q., Cosmological Constraints on Mirror Matter Parameters, *Advances in High Energy Physics*, 148319 (2014)
- Corbelli, E., and Salucci, P., The Extended Rotation and The Dark Matter Halo of M33, *Monthly Notices of the Royal Astronomical Society*, **311** 2 441-447 (2000)
- Craig, N., Koren, S., and Trott, T., Cosmological Signals of A Mirror Twin Higgs, *Journal of High Energy Physics* (2017).

Cybert, R., Fields, B., Olive, K., and Yeh, T., Big Bang Nucleosynthesis: Present Status, *Rev. Mod. Phys.* **88** 015004 (2016)

Dasgupta, B., and Kopp, J., Cosmologically Safe eV-Scale Sterile Neutrinos and Improved Dark Matter Structure, *Phys. Rev. Lett.* **112** 031803 (2014)

Felder, G., and Tkachev, I., *LATTICEASY: A Program for Lattice Simulations of Scalar Fields in An Expanding Universe*, arXiv:hep-ph/0011159.

Felder, G., and Kofman, L., Development of Equilibrium after Preheating, *Phys. Rev. D* **63**, 103503 (2001)

Foot, R., and Volkas, V., Reconciling Sterile Neutrinos with Big Bang Nucleosynthesis, *Phys. Rev. Lett.* **75** 4350 (1995)

Fujii, Y., and Maeda, K., 2003, *The Scalar-Tensor Theory of Gravitation*, Cambridge University Press.

Gentile, G., and Salucci, P., The Cored Distribution of Dark Matter in Spiral Galaxies, *Monthly Notices of the Royal Astronomical Society*, **351** 903-922 (2004)

Gorbunov, D., and Rubakov, V., 2011, *Introduction to the Theory of the Early Universe: Hot Big Bang Theory*, World Scientific Publishing.

Gorbunov, D., and Rubakov, V., 2011, *Introduction to The Theory of The Early Universe, Cosmological Perturbations and Inflationary Theory*, World Scientific.

Hamann, J., Hannestad, S., Raffelt, G., and Wong Y., Sterile Neutrinos with eV Masses in Cosmology - How Disfavoured Exactly?, *Journal of Cosmology and Astroparticle Physics*, **09** 034 (2011)

Hardy, E., and Unwin, J., Symmetric and Asymmetric Reheating, *Journal of High Energy Physics*, **113** (2017)

Hodges, H., Mirror Baryons as the Dark Matter, *Phys. Rev. D* **47** 456 (1993)

- Kaiser, D., Conformal Transformations with Multiple Scalar Fields, *Phys. Rev. D* **81** 084044 (2010)
- Kaiser, D., Mazenc, E., and Sfakianakis, E., Primordial Bispectrum from Multifield Inflation with Nonminimal Couplings, *Phys. Rev. D* **87** 064004 (2013)
- Klypin, A., Kravtsov, A., Valenzuela, O., and Prada, F., Where are the Missing Galactic Satellites?, *Astrophysical Journal*, **522** 82-92 (1999)
- Kofman, L., Linde, A., and Starobinsky, A., Towards the Theory of Reheating after Inflation, *Phys. Rev. D* **56**, 3258 (1997)
- Kolb, E., Seckel, D., and Turner, M., The Shadow World of Superstring Theories, *Nature*, **314** 415-419 (1985)
- Landau, L., and Lifshitz, E., 1977, *Quantum Mechanics Non-Relativistic Theory*, Pergamon Press.
- Linde, A., *Inflationary Cosmology after Planck 2013*, arXiv:1402.0526 [hep-th]
- McLachlan, N., 1947, *Theory and Application of Mathieu Functions*, Oxford at the Clarendon Press.
- Micha, R., and Tkachev, Turbulent Thermalization, *Phys. Rev. D* **70**, 043538 (2004)
- Mohapatra, R., and Nasri, S., Avoiding BBN Constraints on Mirror Models for Sterile Neutrinos, *Phys. Rev. D* **71** 053001 (2005)
- Jacques, T., Krauss, L., and Lunardini, C., Additional Light Sterile Neutrinos and Cosmology, *Phys. Rev. D* **87** 083515 (2013)
- Mukhanov, V., 2005, *Physical Foundations of Cosmology*, Cambridge University Press.
- Okun, L., *Mirror Particles and Mirror Matter: 50 Years of Speculation and Search*, arXiv:hep-ph/0606202v2 (2006).

Schwartz, M., 2014, *Quantum Field Theory and the Standard Model*, Cambridge University Press.

Starobinsky, A. A New Type of Isotropic Cosmological Model without Singularity, *Phys. Lett. B* **91** 99 (1980).

Tenkanen, T., and Vaskonen, V., Reheating the Standard Model from A Hidden Sector, *Phys. Rev. D* **94** 083516 (2016)

Tsujikawa, S., Maeda, K., and Torii, T., Preheating with Nonminimally Coupled Scalar Fields in Higher Curvature Inflation Models, *Phys. Rev. D* **60**, 123505 (1999)

Weinberg, S., 2008, *Cosmology*, Oxford University Press.

Whitt, B., Fourth-Order Gravity as General Relativity Plus Matter, *Phys. Lett. B* **145**, 176 (1984)