

Neutrino Physics References

Books

The Physics of Massive Neutrinos, B. K., with F. Gibrat-Debu and F. Perrier (World Scientific, Singapore, 1989).

Physics of Neutrinos, M. Fukugita and T. Yanagida (Springer, Berlin/Heidelberg, 2003).

Fundamentals of Neutrino Physics and Astrophysics, C. Giunti and C. Kim (Oxford University Press, Oxford, 2007).

The Physics of Neutrinos, V. Barger, D. Marfatia, and K. Whisnant (Princeton University Press, Princeton, 2012).

Papers

“Neutrino Mass, Mixing, and Oscillations,”
K. Nakamura and S. Petcov, in K.A. Olive et al. (PDG),
Chin. Phys. C38, 090001 (2014). Also at
<http://pdg.lbl.gov/2014/reviews/rpp2014-rev-neutrino-mixing.pdf>

“Neutrino Mass, Mixing, and Flavor Change,” B. K., in
Neutrino Mass, eds. G. Altarelli and K. Winter
(Springer, Berlin/Heidelberg, 2003). Also eprint hep-ph/
0211134. This paper discusses quite a few of the topics
covered in the lectures.

“Neutrino Oscillation Physics,” B. K., in **Proceedings of the International School on AstroParticle Physics**, eds. G. Bellini and L. Ludhova (IOS Press, Amsterdam, 2012), and in **Proceedings of the 2011 European School of High-Energy Physics**, eds. C. Grojean and M. Mulders (CERN, Geneva, 2014). Also arXiv:1206.4325. This paper derives the probability for neutrino oscillation without assuming that all neutrino mass eigenstates in a beam have the same energy, or else the same momentum.

“Light Sterile Neutrinos: A White Paper,” K. Abazajian et al., arXiv:1204.5379.