

$\Lambda(1405)$ and $\bar{K}N$ interaction

Reference list

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1 Lecture notes

- [Note 1] <http://www2.yukawa.kyoto-u.ac.jp/~tetsuo.hyodo/publication/Note1.pdf>
Lecture note on scattering theory. It is shown that the pole of the scattering amplitude represents the eigenstate of Hamiltonian.
- [Note 2] <http://www2.yukawa.kyoto-u.ac.jp/~tetsuo.hyodo/publication/Note2.pdf>
Lecture note on effective field theory. The zero range model (non-relativistic field theory with contact interaction) is explained.
- [Note 3] <http://www2.yukawa.kyoto-u.ac.jp/~tetsuo.hyodo/publication/Note3.pdf>
Lecture note on chiral dynamics for meson-baryon scattering. A part of the present lecture is based on this note.

2 Textbooks

- [Cheng-Li] T. P. Cheng and L. F. Li, *Gauge theory of elementary particle physics*, Oxford University Press (1988).
- [Coleman] S. Coleman, *Aspects of symmetry*, Cambridge University Press (1988).
- [Scherer-Schindler] S. Scherer and M. R. Schindler, *A Primer for Chiral Perturbation Theory*, Lect. Notes Phys. **830** (2012).

3 Papers and review articles

- [AY 2002] Y. Akaishi and T. Yamazaki, Phys. Rev. C **65**, 044005 (2002).
- [HJH 2006] T. Hyodo, D. Jido and A. Hosaka, Phys. Rev. Lett. **97**, 192002 (2006).
- [HJH 2007] T. Hyodo, D. Jido and A. Hosaka, Phys. Rev. D **75**, 034002 (2007).
- [HW 2008] T. Hyodo and W. Weise, Phys. Rev. C **77**, 035204 (2008).
- [HJ 2012] T. Hyodo and D. Jido, Prog. Part. Nucl. Phys. **67**, 55 (2012).

- [**Hoshino 2017**] T. Hoshino, S. Ohnishi, W. Horiuchi, T. Hyodo and W. Weise, Phys. Rev. C **96**, no. 4, 045204 (2017).
- [**IHW 2011**] Y. Ikeda, T. Hyodo and W. Weise, Phys. Lett. B **706**, 63 (2011); Nucl. Phys. A **881**, 98 (2012).
- [**Jido 2003**] D. Jido, J. A. Oller, E. Oset, A. Ramos and U. G. Meissner, Nucl. Phys. A **725**, 181 (2003).
- [**MH 2015**] U. Meissner, T. Hyodo, *Pole Structure of the $\Lambda(1405)$ Region*, <http://pdg.lbl.gov/2017/reviews/rpp2017-rev-lam-1405-pole-struct.pdf> .
- [**MH 2016**] K. Miyahara and T. Hyodo, Phys. Rev. C **93**, 015201 (2016).
- [**Ohnishi 2017**] S. Ohnishi, W. Horiuchi, T. Hoshino, K. Miyahara and T. Hyodo, Phys. Rev. C **95**, 065202 (2017).
- [**PDG**] C. Patrignani *et al.* [Particle Data Group], Chin. Phys. C **40**, no. 10, 100001 (2016), <http://pdg.lbl.gov/> .
- [**SIDDHARTA 2011**] M. Bazzi *et al.* [SIDDHARTA Collaboration], Lect. Notes Phys. Monogr. **54**, 1 (1998).
- [**Suzukji 1998**] Y. Suzuki and K. Varga, Nuovo Cim. A **46**, 707 (1966).
- [**Tomozawa 1966**] Y. Tomozawa, Nuovo Cim. A **46**, 707 (1966).
- [**Weinberg 1966**] S. Weinberg, Phys. Rev. Lett. **17**, 616 (1966).