

# Introduction to Integrability: Literature

General integrability textbooks and lecture notes: [1–6]. More specialized references: [7–12]. Integrability in gauge and string theory: [13–15]. This lecture course partly follows [3, 4]. This list is far from complete.

## References

- [1] O. Babelon, D. Bernard and M. Talon, “*Introduction to Classical Integrable Systems*”, Cambridge Monographs on Mathematical Physics, Cambridge University Press (2003).
- [2] M. Dunajski, “*Solitons, Instantons, and Twistors*”, Oxford University Press (2010).
- [3] A. Torrielli, “*Lectures on Classical Integrability*”, J. Phys. A49, 323001 (2016), [arxiv:1606.02946](https://arxiv.org/abs/1606.02946).
- [4] N. Beisert, “*Lecture Notes: Introduction to Integrability*”, <http://people.phys.ethz.ch/~nbeisert/lectures/IntHS16-Notes.pdf>.
- [5] L. D. Faddeev, “*How Algebraic Bethe Ansatz works for integrable model*”, [hep-th/9605187](https://arxiv.org/abs/hep-th/9605187), in: “*Relativistic gravitation and gravitational radiation*”, Proceedings of the Les Houches School of Physics, France, 26 Sep-6 Oct, 1995, ed.: J.-A. Marck and J.-P. Lasota, Cambridge University Press (1997), Cambridge.
- [6] R. J. Baxter, “*Exactly solved models in statistical mechanics*”, Academic Press (1982), London, UK.
- [7] N. Reshetikhin, “*Lectures on the Integrability of the 6-Vertex Model*”, [arxiv:1010.5031](https://arxiv.org/abs/1010.5031).
- [8] P. Zinn-Justin, “*Six-Vertex, Loop and Tiling models: Integrability and Combinatorics*”, [arxiv:0901.0665](https://arxiv.org/abs/0901.0665).
- [9] D. Bernard, “*An Introduction to Yangian Symmetries*”, Int. J. Mod. Phys. B07, 3517 (1993), [hep-th/9211133](https://arxiv.org/abs/hep-th/9211133).
- [10] F. Loebbert, “*Lectures on Yangian Symmetry*”, J. Phys. A49, 323002 (2016), [arxiv:1606.02947](https://arxiv.org/abs/1606.02947).
- [11] V. Chari and A. Pressley, “*A guide to quantum groups*”, Cambridge University Press (1994), Cambridge, UK.
- [12] C. Gomez, G. Sierra and M. Ruiz-Altaba, “*Quantum groups in two-dimensional physics*”, Cambridge Monographs on Mathematical Physics, Cambridge University Press (2011).
- [13] N. Beisert, “*The Dilatation Operator of  $\mathcal{N} = 4$  Super Yang–Mills Theory and Integrability*”, Phys. Rept. 405, 1 (2004), [hep-th/0407277](https://arxiv.org/abs/hep-th/0407277).
- [14] N. Beisert et al., “*Review of AdS/CFT Integrability: An Overview*”, Lett. Math. Phys. 99, 3 (2012), [arxiv:1012.3982](https://arxiv.org/abs/1012.3982).
- [15] D. Bombardelli et al., “*An integrability primer for the gauge-gravity correspondence: An introduction*”, J. Phys. A49, 320301 (2016), [arxiv:1606.02945](https://arxiv.org/abs/1606.02945).