

Integrability in non-relativistic string theory

Friday, January 19, 2024 4:30 PM (30 minutes)

Integrability has played a huge role in understanding string theory in AdS₅×S⁵. This has motivated people to explore if integrability techniques can be applied to more general backgrounds. One of these cases is the non-relativistic limit of AdS₅×S⁵. In this talk, I will report on recent progress in understanding classical integrable structures present in non-relativistic string theory propagating in string Newton-Cartan AdS₅×S⁵. In particular, I will discuss classical solutions, the coset construction of the action, the Lax connection and the classical spectral curve.

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