

Integrability in non-relativistic string theory

Friday 19 January 2024 16:30 (30 minutes)

Integrability has played a huge role in understanding string theory in $AdS_5 \times S^5$. 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 $AdS_5 \times S^5$. 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 $AdS_5 \times S^5$. 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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