New Perspectives in Conformal Field Theorie and Gravity

CLUSTER OF EXCELLENCE QUANTUM UNIVERSE **DESY THEORY WORKSHOP**

NEW PERSPECTIVES IN CONFORMAL FIELD THEORY AND GRAVITY

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Integrability in non-relativistic string theory

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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.

Summary

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Presenter: NIETO GARCIA, Juan Miguel (UNI/TH (Uni Hamburg, Institut fuer Theoretische Physik))Session Classification: Parallel Session Wednesday: Strings / Mathematicals Physics III

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