

Symmetries, holography and integrability in NR string theory in SNC $\text{AdS}_5 \times S^5$

Tuesday 29 April 2025 14:00 (30 minutes)

Integrability and holography have played a huge role in understanding string theory in $\text{AdS}_5 \times S^5$, so it is worth studying if they survive in the non-relativistic string theory. In this talk, I will show that the Maldacena's construction of the $\text{AdS}_5/\text{CFT}_4$ correspondence survives the limit process, giving us a duality between NR string theory in SNC $\text{AdS}_5 \times S^5$ and Galilean Electrodynamics with additional scalar fields. I will also discuss the symmetries of both theories and the non-diagonalisable integrability of the string theory.

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