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Schroedinger's Equation for Conformal Symmetry

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Conformal partial wave expansions are an indispensable tool to separate the dynamical content of any conformal field theory from its kinematical skeleton. They can be used to analyze correlation functions of local and non-local fields, such as line- or surface operators, defects or interfaces. I will explain and exploit a remarkable relation with integrable multi-particle Schroedinger problems of Calogero-Sutherland type to develop a systematic theory of conformal partial waves for correlations of both local and non-local operators.

Summary

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