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Quantum information and high energy physics

Thursday, 5 March 2026 13:35 (30 minutes)

I will summarise recent work from the Adelaide group on quantum information topics relevant to high energy physics. This includes the measurement of quantum information-inspired concepts at colliders (such as non-stabiliserness) that may give us new ways to search for BSM physics. It also includes work that suggests that some symmetries of the Standard Model and its extensions may result from the imposition of specific patterns of quantum correlations in the final state of scattering processes.

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