

Quantum Gravity and Geometry

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Understanding the principles of quantum gravity is undoubtedly among the most important challenges for fundamental physics in the 21st century. Modern mathematics can guide the way towards uncovering such principles, especially in the context of string theory, and at the same time receives new inspiration from physics insights into quantum gravity. I will exemplify this cross-fertilisation of mathematics and fundamental physics in the context of moduli spaces of quantum gravity theories near their weak coupling regime.

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