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An overview of quantum field theory in curved spacetimes

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Content

Quantum field theory in curved spacetimes (QFT in CS) has not only predicted exciting physical phenomena, such as black hole radiation, the Unruh effect and cosmological particle creation, but also lies at the intersection of many mathematical subjects, and can arguably be viewed as a branch of mathematics in its own right. In this talk, we shall give an inviting brief overview of QFT in CS. We shall discuss how to extend the well-known quantization on Minkowski space to general curved spacetimes and we shall overview how to define acceptable states in the absence of spacetime isometries that can single out a preferred vacuum. We shall also discuss applications.

Summary

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