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Geometry of the quantum space

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Content

We take as a starting point an expression for the quantum geometric tensor recently derived in the context of the gauge/gravity duality. We proceed to generalize this formalism in such a way that it is possible to compute the geometrical phases of quantum systems. Our scheme provides a conceptually complete description and introduces a different point of view with respect to earlier works. Using our formalism, we show how this expression can be applied to well-known quantum mechanical systems.

Summary

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