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### Geometry Of Quantum Theory

In theoretical physics, quantum geometry is the set of mathematical concepts generalizing the concepts of geometry whose understanding is necessary to describe the physical phenomena at distance scales comparable to the Planck length. At these distances, quantum mechanics has a profound effect on physical phenomena.

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### Quantum geometry - Wikipedia

a quantum mechanical system formed a projective geometry the projective geometry of subspaces of a complex, separable, infinite dimensional Hilbert space. With this as a point of departure, he carried out a mathematical analysis of the axiomatic foundations of quantum mechanics which must certainly rank among his greatest

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Over the years, the mathematics of quantum theory has become more abstract and, consequently, simpler. Hilbert spaces have been used from the very beginning and, after Weyl and Wigner, group representations have come in conclusively.

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Geometry of Quantum Theory by V. S. VARADARAJAN, second edition, Verlag, New York - Berlin - Heidelberg -Tokyo 1985, xviii-412 pp. Springer- This book is a reedition of two volumes published under the same title in 1968 and 1970, respectively.

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Geometry of Quantum States: Amazon.co.uk: Ingemar ...

In ordinary quantum field theory, lengths and distances are defined with respect to a (flat) spacetime metric, which is part of the fixed background structure. One simply has.  $\langle x|y\rangle=f(|x-y|)$ , (25) where  $|x-y|$  is the invariant spacetime distance between the spacetime points  $x$  and  $y$ .

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