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'Hamiltonian mechanics Wikipedia

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geometry Canonical forms If ω is of maximum rank $2r$ $2d - 2$ cone can reduce it locally to the Darboux canonical form $\sum_{j=1}^r dx_j^2 - \sum_{j=1}^{d-2r} dx_j^2$ So ω is a canonical form of ω near generic point for generic A

'Quantum geometry Wikipedia

October 30th, 2019 - More technically quantum geometry refers to the shape of a spacetime manifold as experienced by D branes which includes quantum corrections to the metric tensor such as the worldsheet instantons For example the quantum volume of a cycle is computed from the mass of a brane wrapped on this cycle'

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suggests in order to realise the space of states for quantum systems which are classically described on topologically non trivial configuration spaces to consider Hilbert spaces of exterior differential forms'

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see also ref 81 and references therein ?is still ongoing with vibrant future research'

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'deal with nonparametric'

'Spacetime geometry in quantum mechanics Resonance

December 17th, 2019 - In its simplest essence the solution comes from the quantum structure and multiply connected geometry of spacetime where discrete energetic fluctuations at the smallest scales curve spacetime to such a high degree that quantum gravity binds them together into tiny black holes ? which are the elementary particles comprising matter'

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May 15th, 2019 - the topological entropy of the corresponding classical dynamics The relations to the diffraction catastrophe integrals and one step multiply folding maps are also discussed Keywords WKB analysis Stokes phenomenon Henon map quantum tunneling quantum chaos horseshoe pruning theory Mathematics Subject Classification numbers 81Q50 34M40" ***Quantum reflection above the classical radiation reaction***

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December 26th, 2019 - 7 Geometric Quantization 93 these ideas play in formalizing the transition between the mathematics of classical dynamics hamiltonian flows on symplectic manifolds and that of quantum mechanics unitary flows on Hilbert spaces geometry The quantum mechanical picture" **Geometry from Dynamics Classical and Quantum 2015 José F**

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