

Quantum Physics, Relativity, And Complex Spacetime: Towards A New Synthesis

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A new synthesis of the principles of quantum mechanics and Relativity is proposed in the context of complex differential geometry. The positivity of the energy implies that wave functions and fields can be extended to complex spacetime, and it is shown that this complexification has a solid physical interpretation as an extended phase space. The extended fields can be said to be realistic wavelet transforms of the original fields. A new, algebraic theory of wavelets is developed. EAN/ISBN : 9780080872742 Publisher(s): Elsevier Science & Technology, North Holland Format: ePub/PDF Author(s): Kaiser, G.

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