



Wilson Loop

By Lambert M. Surhone

Betascript Publishers Jan 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x6 mm. Neuware - High Quality Content by WIKIPEDIA articles! In gauge theory, a Wilson loop (named after Kenneth G. Wilson) is a gauge-invariant observable obtained from the holonomy of the gauge connection around a given loop. In the classical theory, the collection of all Wilson loops contains sufficient information to reconstruct the gauge connection, up to gauge transformation. In quantum field theory, the definition of Wilson loops observables as bona fide operators on Fock space (actually, Haag's theorem states that Fock space does not exist for interacting QFTs) is a mathematically delicate problem and requires regularization, usually by equipping each loop with a framing. The action of Wilson loop operators has the interpretation of creating an elementary excitation of the quantum field which is localized on the loop. In this way, Faraday's 'flux tubes' become elementary excitations of the quantum electromagnetic field. 104 pp. Englisch.

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