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# A Theory of Scattering for Quasifree Particles

By Ray F Streater



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## A Theory of Scattering for Quasifree Particles By Ray F Streater

In this book, the author presents the theory of quasifree quantum fields and argues that they could provide non-zero scattering for some particles. The free-field representation of the quantised transverse electromagnetic field is not closed in the weak\*-topology. Its closure contains soliton anti-soliton pairs as limits of two-photon states as time goes to infinity, and the overlap probability can be computed using Uhlmann's prescription. There are no free parameters: the probability is determined with no requirement to specify any coupling constant. All cases of the Shale transforms of the free field  $\phi$  of the form  $\phi \rightarrow \phi + \phi$ , where  $\phi$  is not in the one-particle space, are treated in the book. There remain the cases of the Shale transforms of the form  $\phi \rightarrow T\phi$ , where  $T$  is a symplectic map on the one-particle space, not near the identity.

Readership: Graduate students and professional in particle and mathematical physics.



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From the Inside Flap

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