

Contents

	Page
1. Introduction.	3
2. The Fresnel integral of functions on a separable real Hilbert space.	14
3. The Feynman path integral in potential scattering.	26
4. The Fresnel integral relative to a non singular quadratic form.	46
5. Feynman path integrals for the anharmonic oscillator.	65
6. Expectations with respect to the ground state of the harmonic oscillator.	80
7. Expectations with respect to the Gibbs state of the harmonic oscillator.	86
8. The invariant quasifree states.	90
9. The Feynman history integrals for the relativistic quantum boson field.	105
Footnotes.	115
References.	120
Analytic Index.	132
List of Notations.	138