Riemann Surfaces

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Q1. We have computed the path integral for a harmonic oscillator in the position basis. First, what would be corresponding result for the momentum basis propagator? Second, chose instead to work with coherent states, which we recall also obeys a completeness relation, write down the expression for the propagator.

1 3 point amplitudes bootstrapping

Take some open set U in the complex plane and a function f which takes complex variables z and maps them to $\omega = f(z)$ in the open domain V

References

[1] N. E. J. Bjerrum-Bohr, J. F. Donoghue and P. Vanhove, "On-shell Techniques and Universal Results in Quantum Gravity," JHEP **02** (2014), 111 doi:10.1007/JHEP02(2014)111 [arXiv:1309.0804 [hep-th]].