when there is no risk of confusion I abuse the notation, using † when I should use ∗. For instance, in a path integral, bosonic fields are just number-valued fields, but nevertheless I write $\varphi^\dagger$ rather than φ^*. For a matrix M, then of course $M^\dagger$ and M^* should be carefully distinguished from each other.

I made an effort to get factors of 2 and π right, but some errors will be inevitable.