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Fermions: Surprises in spacetime

I describe a TQFT-type approach for encoding fermionic field theories in (not necessarily metric) spacetime - both classical and quantum. This yields some surprises: - Fermionic Fock spaces are in general necessarily indefinite inner product spaces rather than Hilbert spaces - there is an emergent notion of time, both classical and quantum, even if no spacetime metric is present I also explain why these features become “invisible” in the traditional approach.