1 Feynman path integrals with complex mass

1.1 Complex actions

- Short introduction to actions *Todo*
- Why a complex action? *Todo*
- Attempts to show a complex action is possible *Todo*
- Find classical path from path-integral with complex mass *Todo*

1.2 Some formulas

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$$\mathrm{L}\ \left(\{q_j(t)\},\{\dot{q}_j(t)\},t\right) := T - V \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\partial L}{\partial \dot{q}_j}\right) - \frac{\partial L}{\partial q_j} = 0\ \forall_j L \to \mathcal{L}\Big((x),(x)\Big)\left(\frac{\partial \mathcal{L}}{\partial ()}\right) - \frac{\partial \mathcal{L}}{\partial} =$$

$$0 S(t_0,t_1) := \int_{t_0}^{t_1} \mathcal{L}\left((t),(t),t\right)\ \mathrm{d}t \delta S = 0 \mathrm{B}, \mathrm{A}^2, \mathrm{A}, C, A \times B \nabla f, \nabla f, \nabla \cdot \mathrm{F}, \nabla \times \mathrm{F}, f \Rightarrow, \Rightarrow, \Leftrightarrow, \Leftrightarrow$$

$$, \to, \mapsto, \rightsquigarrow =, =:, \equiv, \cong, \approx, \sim, \propto$$