

Formulate Lorentz-invariant Lagrangian $\mathcal{L}(V, \dot{V})$ with parameters a .

Determine Hamiltonian $\mathcal{H}(\Pi, V)$
by solving for \dot{V} .

Some \dot{V} not solvable.

Introduce Lagrange multiplier z for
unknown \dot{V} and primary constraints ϕ_1 .

Require
conservation in
time for ϕ_i .
Solve for z .

Choose a .
Introduce
secondary
(tertiary, ...) constraints ϕ_2
(ϕ_3, \dots).

#DoF in \mathcal{H}
minus
#Constraints
equals #DoF of
particles?

depends on a

No

Yes

Non-physical
theory.
Retry with other
choice for a .

Self-consistent
theory.