

... whereas the Lagrangian is considered a function of the generalized coordinates,  $q_j$ , and their time derivative.

$$H(q_k, p_k, t) = \sum_j p_j \dot{q}_j - L(q_k, \dot{q}_k, t)$$

To “convert” from the Lagrange formulation to the Hamiltonian formulation, we consider:

$$dH = \sum_j \left( \frac{\partial H}{\partial q_k} dq_k + \frac{\partial H}{\partial p_k} dp_k \right) + \frac{\partial H}{\partial t} dt$$

But given:  $H = \sum_j p_j \dot{q}_j - L$

One can also write:

$$\begin{aligned} dH &= \sum_j (p_k d\dot{q}_k + \dot{q}_k dp_k) - dL \\ &= \sum_j \left( p_k d\dot{q}_k + \dot{q}_k dp_k - \underbrace{\frac{\partial L}{\partial q_k}}_{\dot{p}_k} dq_k - \underbrace{\frac{\partial L}{\partial \dot{q}_k}}_{-p_k} d\dot{q}_k \right) - \frac{\partial L}{\partial t} dt \end{aligned}$$

# Lagrangian And Hamiltonian Formulation Of

**Sabine Zange**



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