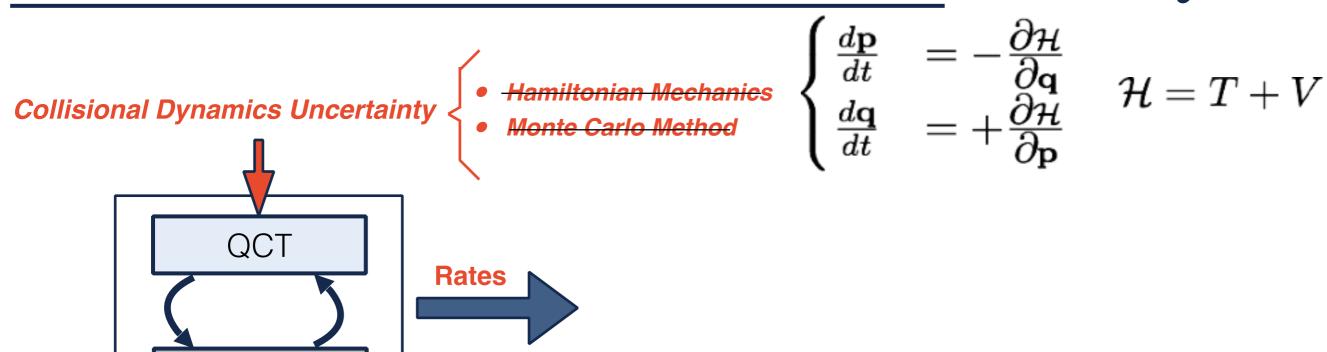
Motivation: Effects of PES Uncertainty

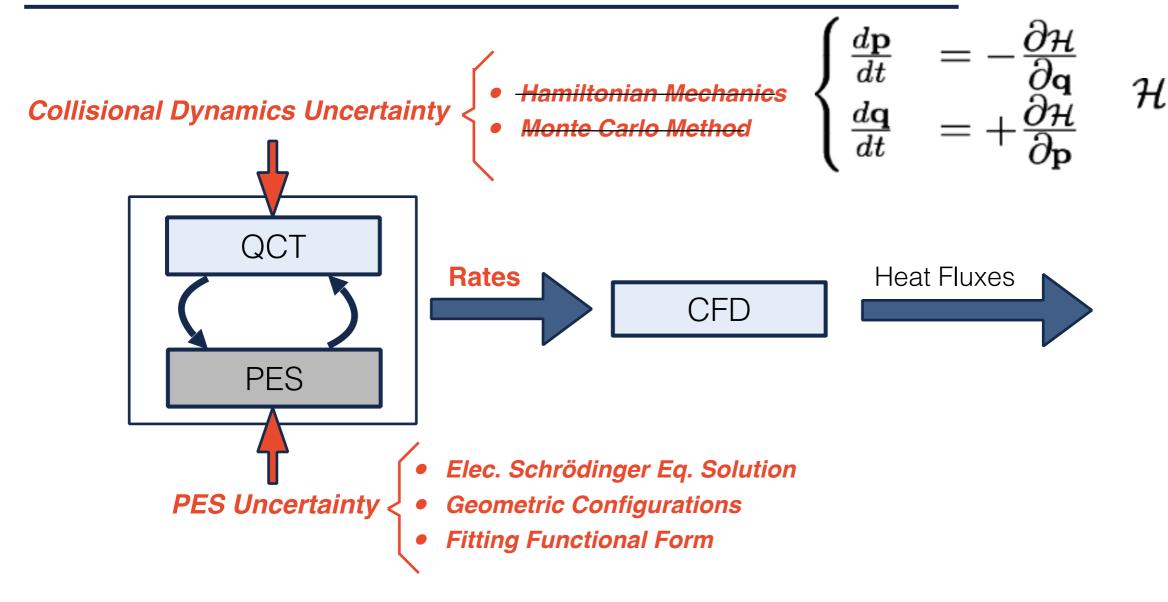


PES Uncertainty

PES

- Elec. Schrödinger Eq. Solution
- Geometric Configurations
- Fitting Functional Form

Motivation: Effects of PES Uncertainty



Can we use Machine Learning in oder to generate surrogate Potential Energy Surfaces for Hypersonic Applications?

What impact does the PES uncertainty have on the rate coefficients and, ultimately, on the capsule design?