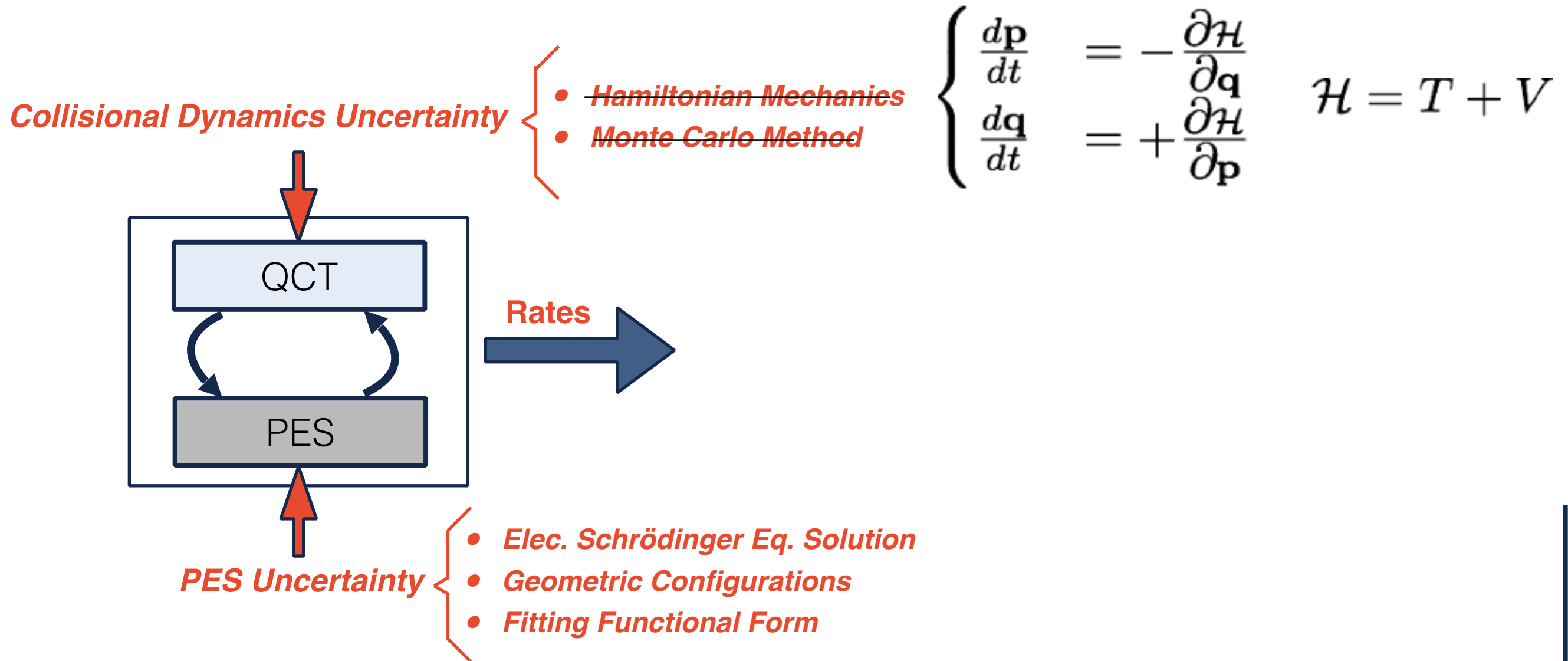
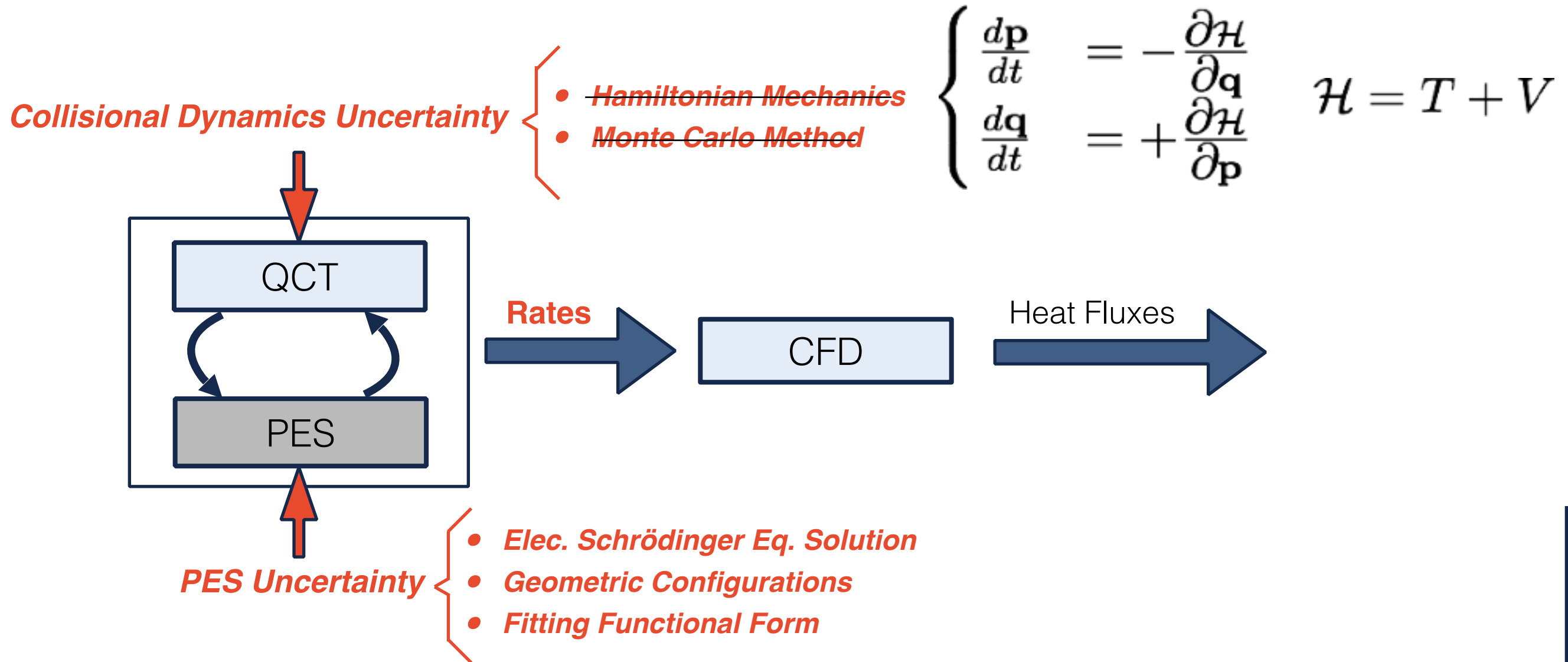


# Motivation: Effects of PES Uncertainty



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Can we use Machine Learning in order 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?