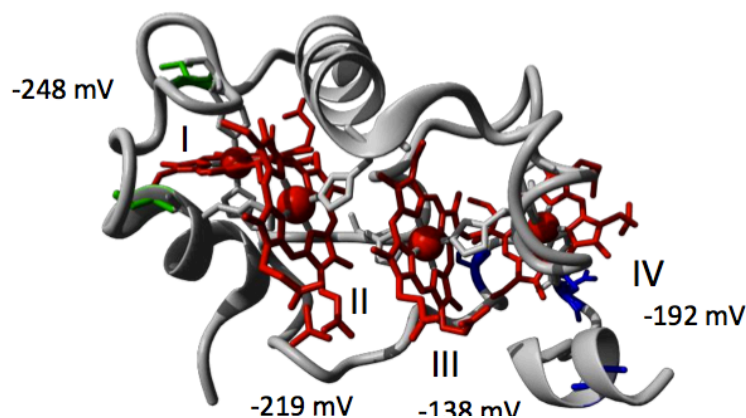


Electron Transfer in Protein

Antoine Carof and Jochen Blumberger



$$i\hbar \frac{\partial}{\partial t} \Psi(\mathbf{r}, \mathbf{R}, t) = \hat{\mathcal{H}} \Psi(\mathbf{r}, \mathbf{R}, t)$$

\mathcal{H}^{aa}	\mathbf{F}^{adiab}
\mathcal{H}^{ab}	C_i

- ➔ Respiration process
- ➔ Technological application
- ➔ Mixed quantum-classical MD
- ➔ Non Adiabatic Dynamics:
Surface Hopping
- ➔ Use CP2K Mixed Force Mod.
- ➔ Analytic Overlap Method