## Errata - Quantum dynamical effects in complex chemical systems

- S. Karl-Mikael Svensson, June 8, 2020 The following errors have been found in the thesis:
  - The vector derivatives  $\frac{d}{d\alpha(t)}$  in equations 3.7-3.10 on pages 65-66 should be transposed,  $\left(\frac{d}{d\alpha(t)}\right)^T$ .
  - On page 69 " $\boldsymbol{x}$  and  $\boldsymbol{p}$ " should be "x and p".
  - On page 8 of paper II, last paragraph of section A, the phase factor is written as  $\exp(i\xi_r(t)/\hbar)$ . It should be  $\exp(i\xi_r(t))$ .
  - On page 18 of paper III in the first sentence of appendix E, "and  $\left(\widehat{B}\right)_{W}\left[x\left(x_{N},p_{N},t\right)p\left(x_{N},p_{N},t\right)\right]$ " should be removed.
  - The integral in equation 22 on page 5 of paper IV should be over  $x_{\frac{N}{2}+1}$ , not  $x_{\frac{N}{2}}$ .
  - Parts of equation 29 on page 6 of paper IV have been cut off in print. The complete equation should be:

$$e^{-\frac{i}{\hbar}p_{N}(x_{1}-x_{N})} \times \left(\frac{i\hbar\beta}{4Nm} \left(\frac{\mathrm{d}V\left(y_{\frac{N}{2}}\right)}{\mathrm{d}y_{\frac{N}{2}}} + \frac{\mathrm{d}V\left(y_{\frac{N}{2}+1}\right)}{\mathrm{d}y_{\frac{N}{2}+1}}\right) + \frac{iN}{2\hbar\beta} \left(x_{\frac{N}{2}} - x_{\frac{N}{2}+2}\right)\right) \times h\left(x\left(y_{N}, p_{N}, t\right)\right)$$