\* In the proof of Proposition 1.15, the term  $||R_{\alpha}||_{H^s}$  should be replaced by the sum over  $|\alpha| \leq s$  of  $||R_{\alpha}||_{L^2}$ , and in the proof of Proposition 2.2, the term  $||R_s^{\varepsilon}||_{H^s}$  should be replaced by  $||R_s^{\varepsilon}||_{L^2}$ .

\* From the middle of p.36, until the end of Section 2,2, T should be replaced by  $T_0$ . And as noted on p.39, we can eventually take  $T_0 = T$ .

\* In Proposition 2.6, a power of  $\varepsilon$  is missing. The error estimate should read

$$\left|a^{\varepsilon}-a^{(0)}-\varepsilon a^{(1)}\right\|_{L^{\infty}\left(\left[-T,T\right];H^{s-4}\right)} \leqslant C\left(\varepsilon^{2}+\|a_{0}^{\varepsilon}-a_{0}-\varepsilon a_{1}\|_{H^{s-4}}\right).$$

\* In the proof of Lemma 2.18, *b* should be *g*.

\* p. 266, the equation satisfied by yu contains a typo, and should read

$$\left(i\partial_t + \frac{1}{2}\Delta\right)yu = \frac{1}{2}\left\langle y, \nabla^2 V\left(q(t)\right)y\right\rangle yu + \nabla u.$$

\* p. 266, some factors are missing in the commutator formulas:

$$\begin{bmatrix} y_j^k, \Delta \end{bmatrix} = -2ky_j^{k-1}\partial_j - k(k-1)y_j^{k-2}, \\ \begin{bmatrix} \partial_j^k, \langle y, \nabla^2 V(q(t)) y \rangle \end{bmatrix} = 2k\sum_m \partial_{jm}^2 V(q(t)) y_m \partial_j^{k-1} + k(k-1)\partial_{jj}^2 V(q(t)) \partial_j^{k-2}.$$