

## Errata

- In the Publication I, equation (7) should read

$$\psi_i(\mathbf{r}, t) = \phi_i(\mathbf{r}) + \lambda[u_{q,i}(\mathbf{r})e^{-i(E_q/\hbar)t} - v_{q,i}^*(\mathbf{r})e^{i(E_q^*/\hbar)t}]$$

- In the Publication IV, all terms  $\frac{\mu_B B_\perp}{2\hbar\omega_r}$  should read  $\frac{\mu_B B_\perp a_r}{2\hbar\omega_r}$  where  $a_r$  is the harmonic oscillator length defined in the text.
- In the Publication VIII, the dimensionless 2D interaction strength should be  $\tilde{g} = 4\sqrt{2\pi}Na/a_z$  and the corresponding Gaussian profile is  $\sigma(z) = \frac{1}{\pi^{1/4}\sqrt{a_z}} e^{-z^2/(2a_z^2)}$ .