Errata

– In Paper II, the equations for the operators F_+ and F_- should read

$$\langle 2, m|F_+|2, m'\rangle = \sqrt{(2 - m')(3 + m')}\delta_{m,m'+1,}$$

and

$$\langle 2, m|F_-|2, m'\rangle = \sqrt{(2 + m')(3 - m')}\delta_{m,m'-1,}.$$

– In Paper II, the parameter g_2 in Eq. (3) should be defined as

$$g_2 = -\frac{4\pi\hbar^2}{M}\frac{a_2 - a_4}{7}. \tag{4.3}$$