

Erratum: Dispersive optical detection of magnetic Feshbach resonances in ultracold gases [Phys. Rev. A **96**, 022705 (2017)]

Bianca J. Sawyer, Milena S. J. Horvath, Eite Tiesinga, Amita B. Deb, and Niels Kjærgaard

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There is an error in the experimentally measured two-body loss rate coefficients K_{21} throughout the paper which are too small by an exact factor of 2. This resulted from the measurements being conducted with the atoms distributed over two traps whereas the number of atoms $N \simeq 2.3 \times 10^6$ stated is the total number in both traps. The error has been corrected in Ref. [1]. In particular, we note that the correction modifies panel (c) of Fig. 4 of our original paper to appear as shown in Fig. 1 below. In addition, Eq. (B3) of the original paper should read

$$n_0 = \frac{N_2}{\pi^{3/2} \sigma_x \sigma_y \sigma_z},$$

and the peak density stated in Sec. II C should be corrected to $n_0 \simeq 2.8 \times 10^{19} \text{ m}^{-3}$.

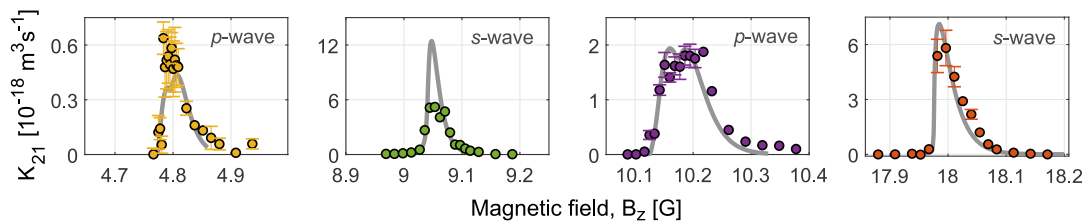


FIG. 1. Theoretically predicted K_{21} coefficients (gray lines), alongside the corresponding measured K_{21} coefficients corrected for the factor of 2 error occurring in the original paper.

[1] B. J. Sawyer, Dispersive probing of dynamical processes and Feshbach resonances in ultracold gases, Ph.D. thesis, University of Otago, 2021.