Erratum: Narrow dip inside a natural linewidth absorption profile in a system of two atoms [Phys. Rev. A **92**, 053840 (2015)]

A. A. Makarov

(Received 26 September 2016; published 10 October 2016)

DOI: [10.1103/PhysRevA.94.049901](https://doi.org/10.1103/PhysRevA.94.049901)

In this paper, Eq. (39) should be corrected to

$$\gamma \approx \frac{3(kr)^2 \Gamma}{32\pi} \int_0^{2\pi} \int_0^\pi (\sin \alpha \sin \theta \cos \varphi + \cos \alpha \cos \theta)^2 \sin^3 \theta d\theta d\varphi = \frac{1}{8}(kr)^2 \Gamma \left[\frac{2}{3} + \frac{1}{5}(2 \cos^2 \alpha - \sin^2 \alpha) \right]. \quad (39)$$

Also, Eq. (45) should be replaced with

$$\begin{aligned} \|U_s\| &= U_r \begin{vmatrix} 1 - \frac{3}{2} \sin^2 \alpha & -\frac{3\sqrt{2}}{4} \sin 2\alpha & \frac{3}{2} \sin^2 \alpha \\ -\frac{3\sqrt{2}}{4} \sin 2\alpha & 1 - 3 \cos^2 \alpha & \frac{3\sqrt{2}}{4} \sin 2\alpha \\ \frac{3}{2} \sin^2 \alpha & \frac{3\sqrt{2}}{4} \sin 2\alpha & 1 - \frac{3}{2} \sin^2 \alpha \end{vmatrix}, \\ |U_a\| &= U_r \begin{vmatrix} \frac{3}{2} \sin^2 \alpha - 1 & \frac{3\sqrt{2}}{4} \sin 2\alpha & -\frac{3}{2} \sin^2 \alpha \\ \frac{3\sqrt{2}}{4} \sin 2\alpha & 3 \cos^2 \alpha - 1 & -\frac{3\sqrt{2}}{4} \sin 2\alpha \\ -\frac{3}{2} \sin^2 \alpha & -\frac{3\sqrt{2}}{4} \sin 2\alpha & \frac{3}{2} \sin^2 \alpha - 1 \end{vmatrix}. \end{aligned} \quad (45)$$

The corrected forms of Eqs. (39) and (45) were actually used in our calculations. Therefore, these corrections do not affect any other results of the paper.