Erratum: “Hyperfine Splitting in Muonic Hydrogen: QED Corrections of the α^2 Order,” *Pis'ma Zh. Eksp. Teor. Fiz.* **88**, 737 (2008) [*JETP Lett.* **88**, 641 (2008)]

S. G. Karshenboim, E. Yu. Korzinin, and V. G. Ivanov

^a State Research Center Mendeleyev All-Russian Institute for Metrology, St. Petersburg, 190005 Russia
e-mail: s.g.karshenboim@vniim.ru

^b Max-Planck-Institut für Quantenoptik, 85748 Garching, Germany

^c Pulkovo Observatory, Russian Academy of Sciences, Pulkovskoe sh. 65, St. Petersburg, 196140 Russia

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Diagram (e) in Table 2 for the contribution of the second-order vacuum polarization to the hyperfine splitting in muonic hydrogen was calculated with an error. A correct combinatory factor of 2 was indicated in Table 2, but was missed in the calculations. This shifts the resulting correction. The revised table is given below.

The results of the original paper change as follows.

(i) The correction for the $1s$ state mentioned in the Introduction of the original paper changes its relative value from 59 ppm to 67 ppm.

(ii) The correction on the second-order vacuum polarization to the difference between the hyperfine splittings of the $1s$ and $2s$ levels changes from -1.72842×10^{-6} eV to -1.8606×10^{-6} eV. As a result, the total result for the specific muon contributions is $\Delta E_{21}^{(\mu\text{QED})} = -129.011(2) \times 10^{-6}$ eV, rather than $\Delta E_{21}^{(\mu\text{QED})} = -128.878(2) \times 10^{-6}$ eV.

(iii) The correct inclusion of the combinatory factor also changes the main result of the original paper [presented in the equation after Eq. (13) in the original paper]:

$$\Delta E_{21} = \left(127.06(49) + 1.03(1) \frac{\Delta E_{\text{hfs}}^{e\text{Nucl}}(1s)}{\Delta E_{\text{hfs}}^{e\text{Nucl},0}(1s)} + 1.96(2) \left(\frac{R_E}{R_0} \right)^2 - 0.46(1) \left(\frac{R_M}{R_0} \right)^2 \right) \times 10^{-6} \text{ eV}.$$

In the original paper, the first term in the parentheses was $-126.93(49)$ and it is changed by a value much

Contributions of the second-order electron vacuum polarization to the hyperfine splitting in muonic hydrogen. This is the revised version of Table 2 from the original paper: contribution (e) and the total correction are revised

Contribution		$c_2(1s)$	$c_2(2s)$	$c_2(21)$
a		1.28028	1.30453	0.02425
b		1.68287	1.73944	0.05657
c		1.85512	1.73785	-0.11727
d		3.79665	2.83394	-0.96271
e		2.32694	2.05872	-0.26822
f		0.92294	0.56352	-0.35942
g		0.68104	0.41990	-0.26114
Total		12.54584	10.65790	-1.88794

smaller than the theoretical error associated with unknown contributions (recoil corrections).

Translated by R. Tyapayev