Erratum: $\sin \theta_{13}$ and neutrino mass matrix with an approximate flavor symmetry

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The Eqs. (2.22), (2.24), (2.25) and (2.27) have typographical errors and should be respectively as follows:

$$\cos 2\theta_a \epsilon_+ - \sin 2\theta_a \sin 2\theta_s \sin \theta_r \epsilon_- = 0 \quad (2.22)$$

$$\epsilon_{12} - \epsilon_{13} = \cos \theta_r \sin 2\theta_s (\cos \theta_a + \sin \theta_a) \epsilon_- + 2(\cos \theta_a - \sin \theta_a) \tan \theta_r \epsilon_+ \quad (2.24)$$

$$\epsilon_{23} = -\sin 2\theta_a (\epsilon_+ + \epsilon_- \cos 2\theta_s) - \epsilon_- \cos 2\theta_a \sin 2\theta_s \sin \theta_r \quad (2.25)$$

$$-2t\epsilon_+ + \sin 2\theta_s \sin \theta_r \epsilon_- = 0 \quad (2.27)$$

In Eq. (2.33) the minus sign on the right hand side should be replaced by the positive sign. However, since sign of Δm^2 is not known, both signs are possible. The Figure 1 in the paper corresponds to negative sign and then also ϵ_{12} and ϵ_{13} should be interchanged.

For positive sign, θ_a is greater than 45° and equal to 45.1° for $\theta_r = 10^\circ$. No other change is needed in this case.

The conclusions of the paper remain unchanged.