Measuring the local matter density using *Gaia* DR2 (Corrigendum)

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This is an erratum for [Widmark \(2019\)](#), with two corrections to the text in the article.

Firstly, in the bottom row and second column of Table 3 of the article, there is a numerical range that reads 6.3–6.3, which should instead read 6.0–6.3.

Secondly, the matrix elements of Eq. (21) all contain a factor of k_μ/ϖ . These factors should really be squared, such that the equation reads

$$\tilde{\Sigma}_\mu = \begin{bmatrix} \left(\frac{k_\mu}{\varpi}\right)^2 \hat{\sigma}_{\mu_l}^2 (1 - \hat{\rho}_{\varpi\mu_l}^2) & \left(\frac{k_\mu}{\varpi}\right)^2 \hat{\sigma}_{\mu_l} \hat{\sigma}_{\mu_b} (\hat{\rho}_{\mu_l\mu_b} - \hat{\rho}_{\varpi\mu_l} \hat{\rho}_{\varpi\mu_b}) \\ \left(\frac{k_\mu}{\varpi}\right)^2 \hat{\sigma}_{\mu_l} \hat{\sigma}_{\mu_b} (\hat{\rho}_{\mu_l\mu_b} - \hat{\rho}_{\varpi\mu_l} \hat{\rho}_{\varpi\mu_b}) & \left(\frac{k_\mu}{\varpi}\right)^2 \hat{\sigma}_{\mu_b}^2 (1 - \hat{\rho}_{\varpi\mu_b}^2) \end{bmatrix}. \quad (21)$$

These corrections apply only to the text in the article. In the analysis, the correct numbers and expressions are used, so the results of [Widmark \(2019\)](#) are not affected.

References

Widmark, A. 2019, [A&A](#), 623, A30