

**Erratum: Fluctuations of the luminosity distance**  
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In Eqs. (29), (30), and (31) of the above paper, the expression  $J(S, O)$  should always be  $J(O, S)$  as in Eqs. (4) and (5). This is simply a typo. The subsequent calculations are correct.

More seriously, in the result given in Eq. (53) the term  $1 - \Psi_O$  should be  $1 - 2\Psi_O + \Psi_S$ . All the following mistakes are consequences of this error: The same error follows in Eq. (55). Consequently the first line of Eq. (58) should be

$$-\frac{1}{\mathcal{H}_S} \Psi_S - (\eta_O - \eta_S - \mathcal{H}_S^{-1}) \Psi_O.$$

Finally, the second line of Eq. (59) should be

$$\frac{1}{(\eta_O - \eta_S) \mathcal{H}_S} (\Psi_S - \Psi_O) - \Psi_S.$$

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