Erratum to: Information on the inflaton field from the spectrum of relic gravitational waves

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In Eqs. (22) and (25) of the paper “Information on the inflaton field from the spectrum of relic gravitational waves,” DOI 10.1007/s10714-009-0895-6, integral signs are missing.

Thus, Eq. (22) has to be substituted with

$$S = \int d^4x \sqrt{-g} \left[\varphi R - \frac{\omega(\varphi)}{\varphi} g^{\mu\nu} \varphi_{;\mu} \varphi_{;\nu} - W(\varphi) + \mathcal{L}_m \right], \quad (22)$$

while Eq. (25) has to be substituted with

$$A = \int \frac{1}{2k} d^4x \sqrt{-\tilde{g}} [\tilde{R} + L(\Phi, \Phi_{;\alpha})]. \quad (25)$$

A typo is also present in Ref. [18]: the year should be 1981, not 1982.

My apologies to the Scientific Community for such typos.

Some historical notes: Eq. (17) first appeared in Ref. [6], and in a more rigorous form which remains valid after the end of the RD stage—with ρ_{rad} instead of ρ_c where ρ_{rad} is the total radiation energy density at the moment of the second Hubble radius crossing at the RD stage, see Eq. (6) in Ref. [6].

The online version of the original article can be found under doi:[10.1007/s10714-009-0895-6](https://doi.org/10.1007/s10714-009-0895-6).

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An analytical calculation of the contribution from GW to the Sachs–Wolfe plateau was in the paper by A. A. Starobinsky, *Sov. Astron. Lett.* 11, 133 (1985) which has to be added to Ref. [18] for a sake of completeness.

I strongly thank Professor A. A. Starobinsky for important clarifications on historical notes concerning this issue.