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Erratum: Measuring global monopole velocities, one by one

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Erratum: Measuring global monopole velocities, one by one

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In our paper "Measuring global monopole velocities, one by one" published in *JCAP* **01** (2017) 020 [1] we obtain several velocity estimations for global monopoles. However, as is pointed out in [2], there was an error in equation (5.4), which should read as follows:

$$\epsilon = \frac{cv_0}{3(1-\lambda)-\lambda v_0^2}, \qquad k = \frac{\lambda v_0}{(1-\lambda)^{3/2}\epsilon^{1/2}}. \tag{1}$$

In table 1 and table 2 we show the updated values of the corresponding table 5 and table 6 of [1], respectively.

Finally the updated version of equation (6.2) reads as follows:

$$\begin{aligned} c_r &= 2.6 \pm 0.3, & k_r &= 0.9 \pm 0.1, \\ c_m &= 2.5 \pm 0.3, & k_m &= 1.6 \pm 0.1. \end{aligned} \tag{2}$$

These corrections do not affect any of the results or conclusions that were obtained in our paper.

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	s=0			s=1		
	ϵ	c	k	ϵ	c	k
Radiation	1.42± 0.09	2.5 ± 0.2	0.76 ± 0.02	1.53 ± 0.04	2.6 ± 0.2	0.92 ± 0.02
Matter	1.97 ±0.09	2.2 ± 0.2	1.55 ± 0.04	2.00 ±0.06	2.7 ± 0.2	1.42± 0.02

Table 1. Values of the analytic parameters for radiation ($\lambda = 1/2$) and matter ($\lambda = 2/3$), and for $s = 0$ and $s = 1$.

	ϵ	c	k
Radiation	1.47 ± 0.09	2.6 ± 0.3	0.9 ± 0.1
Matter	1.98 ± 0.07	2.5 ± 0.3	1.6 ± 0.2

Table 2. Values of the analytic parameters for radiation and matter averaging over all simulations with $s = 0$ and $s = 1$. We first average over all velocities, and then use that average (with errors) to obtain the value of c and k.

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References

[1] A. Lopez-Eiguren, J. Urrestilla, and A. Achúcarro, *Measuring Global Monopole Velocities, one by one*, *JCAP* **01** (2017) 020 [arXiv:1611.09628].

[2] L. Sousa and P.P. Avelino, *Revisiting the VOS model for monopoles*, arXiv:1703.09054.

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