



Erratum: “Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants” (2015, ApJ, 813, 39)*

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Abstract

Equation (7) of the published article (Aasi et al. 2015) is in error; it should read

$$\epsilon = 9.5 \times 10^{-5} \left(\frac{h_0}{10^{-24}} \right) \left(\frac{D}{1 \text{ kpc}} \right) \left(\frac{100\text{Hz}}{f} \right)^2. \quad (7)$$

The upper limits on ϵ presented in the published article are unaffected by this error.

Equation (8) of the published article is in error; it should read

$$\alpha = 0.028 \left(\frac{h_0}{10^{-24}} \right) \left(\frac{100\text{Hz}}{f} \right)^3 \left(\frac{D}{1 \text{ kpc}} \right). \quad (8)$$

The upper limits on α presented in Figure 3 and Table 4 of the published article were computed incorrectly. The revised Figure 3 (bottom) shows the corrected upper limits on α for the G266.2–1.2 (Vela Jr.) wide search. The revised Table 4 is provided here. The correct lowest upper limit on α (quoted in the Abstract of the published article) is 3×10^{-6} .

Figure 4 shows the incorrect and corrected upper limits on α for the G266.2–1.2 (Vela Jr.) wide search, which have been surpassed by upper limits from Abbott et al. (2019).

Table 4
Upper Limit Summary

Search	Indirect h_0	Direct h_0 lowest (best)	Direct ϵ		Direct α	
			at f_{\min}	at f_{\max}	at f_{\min}	at f_{\max}
G1.9 + 0.3	8.4×10^{-25}	6.4×10^{-25}	2.9×10^{-4}	7.6×10^{-5}	6.2×10^{-2}	7.9×10^{-3}
G18.9–1.1	5.4×10^{-25}	4.2×10^{-25}	5.9×10^{-5}	1.2×10^{-5}	1.3×10^{-2}	1.2×10^{-3}
G93.3 + 6.9	6.0×10^{-25}	3.7×10^{-25}	8.1×10^{-5}	6.8×10^{-6}	2.2×10^{-2}	5.4×10^{-4}
G111.7–2.1	1.3×10^{-24}	5.8×10^{-25}	4.6×10^{-4}	1.2×10^{-5}	1.5×10^{-1}	6.2×10^{-4}
G189.1 + 3.0	8.7×10^{-25}	4.6×10^{-25}	1.2×10^{-4}	5.7×10^{-6}	3.4×10^{-2}	3.6×10^{-4}
G266.2–1.2 wide	1.4×10^{-23}	6.8×10^{-25}	1.1×10^{-3}	2.3×10^{-7}	6.9×10^{-1}	3.3×10^{-6}
G266.2–1.2 deep	1.5×10^{-24}	4.4×10^{-25}	1.4×10^{-4}	1.4×10^{-6}	4.9×10^{-2}	4.9×10^{-5}
G291.0–0.1	5.9×10^{-25}	4.2×10^{-25}	1.3×10^{-4}	2.0×10^{-5}	3.1×10^{-2}	1.9×10^{-3}
G347.3–0.5	2.0×10^{-24}	5.6×10^{-25}	2.0×10^{-4}	2.0×10^{-6}	7.3×10^{-2}	6.6×10^{-5}
G350.1–0.3	6.5×10^{-25}	5.1×10^{-25}	1.6×10^{-4}	3.1×10^{-5}	3.6×10^{-2}	3.1×10^{-3}

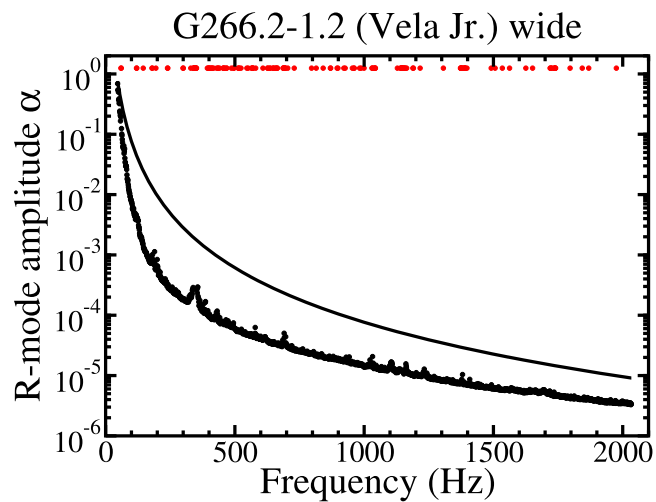


Figure 3. Corrected version of the bottom plot in Figure 3 in the published article.

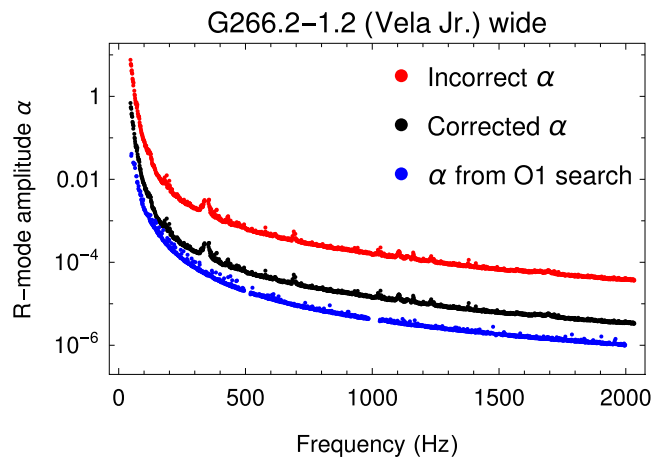


Figure 4. Upper limits on α for the G266.2–1.2 (Vela Jr.) wide search. Incorrect (red) and corrected (black) upper limits from this paper are compared to upper limits from Abbott et al. (2019) (blue).

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