Erratum: Inference of proto-neutron star properties from gravitational-wave data in core-collapse supernovae [Phys. Rev. D 105, 063006 (2021)]

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There is a factor 2 missing in the calculation of the ratio $r \equiv M_{\rm PNS}/R_{\rm PNS}^2$ in [1]. This only affects the scale in Figs 1 and 3 and the numerical values in table II. Those should be replaced by Fig. 1 and 2 and Table I. The conclusions of the paper remain unaffected.

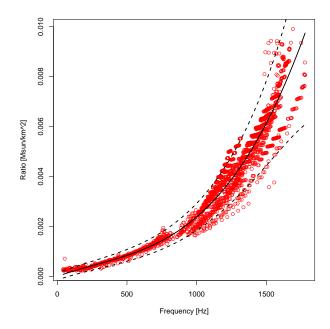


FIG. 1. Ratio $M_{\rm PNS}/R_{\rm PNS}^2$ from our 18 1D simulations of the model set. The solid line is the maximum likelihood estimate of heteroscedastic cubic model with 95% confidence bands (dashed lines) considering the 18 simulation data points. We have not made the distinction between the different simulations since we are only interested in the relationship between the variables.

nate Meyer. Inference of protoneutron star properties from gravitational-wave data in core-collapse supernovae. Phys. Rev. D, 103(6):063006, March 2021.

^[1] Marie-Anne Bizouard, Patricio Maturana-Russel, Alejandro Torres-Forné, Martin Obergaulinger, Pablo Cerdá-Durán, Nelson Christensen, José A. Font, and Re-

Coefficient	Estimate	Standard error
β_1	2.00×10^{-06}	4.23×10^{-08}
eta_2	-1.64×10^{-9}	9.99×10^{-11}
β_3	2.03×10^{-12}	5.41×10^{-14}
$lpha_0$	$-9.54 \times 10^{+00}$	6.80×10^{-02}
$lpha_1$	7.24×10^{-04}	1.56×10^{-04}
α_2	6.23×10^{-07}	8.15×10^{-08}

TABLE I. Estimate and standard error of the coefficients of the best fit model describing the ratio $r=M_{\rm PNS}/R_{\rm PNS}^2$ as function of the frequency of the 2g_2 mode.

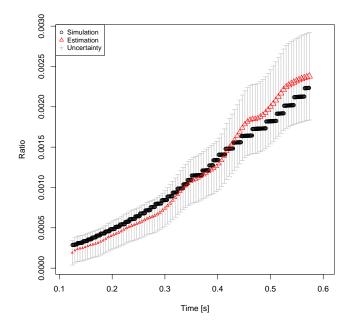


FIG. 2. Comparison of the time evolution of the ratio $M_{\rm PNS}/R_{\rm PNS}^2$ estimated from the 2g_2 -mode of the \$20S signal (shown by open triangles and by the 95% confidence belt in grey) against the value derived from the PNS mass and radius given by the simulation code (shown by filled black circles). The size of the triangles are represented proportionally to the magnitude of the 2g_2 -mode frequency estimates.