

Erratum: Relativistic mean-field interaction with density-dependent meson-nucleon vertices based on microscopical calculations [Phys. Rev. C **84**, 054309 (2011)]

X. Roca-Maza, X. Viñas, M. Centelles, P. Ring, and P. Schuck
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We have recently realized that the significant digits reported in Table I of the original paper for the parameters of the DD-ME δ interaction are not sufficient to accurately reproduce the results published in the same paper. The reason can be easily understood by considering that, for example, in the prediction of masses, there exists a strong cancellation between the contributions of the different meson fields that can be, separately, very large [1]. Specifically, we have checked that one would need to use the value of the parameters with seven significant digits. In Table I below, we give all the parameters of the DD-ME δ functional with seven significant digits.

TABLE I. The parameter set DD-ME δ . The difference of this table with Table I in the original paper is that we report here seven significant digits.

i	m_i (MeV)	$g_i(\rho_{\text{sat}})$	a_i	b_i	c_i	d_i	e_i
σ	566.1577	10.332 54	1.392 730	0.190 119 8	0.367 865 4	0.951 907 8	0.951 907 8
ω	783.0000	12.290 41	1.408 892	0.169 797 7	0.342 900 6	0.985 950 8	0.985 950 8
δ	983.0000	7.151 971	1.517 787	0.326 249 0	0.604 078 2	0.425 717 8	0.588 514 3
ρ	763.0000	6.312 758	1.887 685	0.065 145 96	0.346 896 3	0.941 681 6	0.973 689 3

[1] P. Ring, *Prog. Part. Nucl. Phys.* **37**, 193 (1996).