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Erratum: Measurements of the Neutron-Proton and Neutron-Carbon Cross Sections at Electron Volt Energies

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We have discovered a gross program error in our computation of the neutron-proton total cross section from our data, and a minor error in the program energy scale. Correcting these errors, we find 20.442 ± 0.023 b for the free neutron-proton cross section, taking data from 6.50 to 329 eV. Table I gives the corrected n - p cross section and new values of the numbers dependent on it. A misprint of a_H , column 1, is also corrected. Two conclusions drawn in the paper are corrected as follows:

Page 547, next-to-last paragraph, first sentence, read:

"We have changed σ_H by 0.4%; ..."

Page 547, next-to-last paragraph, last (fourth) sentence, read:

"The new higher value of $\rho_s(0, 0)$ equals the p - p effective range, allowing for the $\pi^\pm$ - π^0 mass splitting."

[†] H. P. Noyes, Nucl. Phys. **74**, 508 (1965).

TABLE I. Table of results.

	This work plus old a_c/a_H	Previous work	Koester's work plus this work
σ_H	20.442 ± 0.023 b	20.36 ± 0.05 b	
σ_c	4.7534 ± 0.0045 b	4.704 ± 0.019 b	
a_c	Corrected for possible C^{13} spin incoherence		Direct
	6.656 ± 0.010 F	6.622 ± 0.017 F	6.656 ± 0.004 F
a_c/a_H		-1.7718 ± 0.0031	-1.7904 ± 0.0006
a_H	-3.756 ± 0.009 F	-3.737 ± 0.011 F	-3.719 ± 0.002 F
a_H	Parahydrogen	-3.80 ± 0.05 F	
	NaH crystal	-3.9 ± 0.1 F	
a_t	5.405 ± 0.006 F	5.399 ± 0.011 F	5.425 ± 0.004 F
a_s	-23.728 ± 0.013 F	-23.680 ± 0.028 F	-23.714 ± 0.013 F
$\rho_t(0, -\epsilon)$	1.738 ± 0.007 F	1.732 ± 0.012 F	1.763 ± 0.005 F
$\rho_s(0, 0)$	2.56 ± 0.10 F	2.48 ± 0.11 F	2.704 ± 0.095 F