
 E R R A T U M

DIRECT MEASUREMENT OF μ^- -MESONIC MOLECULE FORMATION RATES IN LIQUID HYDROGEN. G. Conforto, S. Focardi, C. Rubbia, and E. Zavattini [Phys. Rev. Letters 9, 432 (1962)].

Due to a computational mistake the time scale assumed was 1.29 times the true one. Hence the correct experimental decay times are: Fig. 2(a), $\tau_1 = 119 \pm 8$ nsec, Fig. 2(c), $\tau_2 = 264 \pm 12$ nsec. These results give, for the molecular speed formation, the values shown in the accompanying revision of Table I.

Table I. Summary of results.

Process	D ₂ concentration	Amount of neon added	Measured fraction of μ^- transferred to neon	Rate of mesonic-molecule formation	2 p - 1s mesonic x ray per transfer to neon
$(\mu p) + p \rightarrow (p\mu p)$	$\ll 8$ ppm ^a	28.5 ppm	(5.1 \pm 1.0) %	$\lambda_{pp} = (3.26 \pm 0.78) \times 10^6 \text{ sec}^{-1}$	0.85 \pm 0.26
	~ 3 ppm ^b				
	$\ll 8$ ppm ^a	114 ppm	(14 \pm 2.5) %	$\lambda_{pp} = (2.81 \pm 0.16) \times 10^6 \text{ sec}^{-1}$	1.07 \pm 0.25
	~ 3 ppm ^b				
$(\mu d) + p \rightarrow (p\mu d)$	4600 ppm	15.75 ppm	(17 \pm 3) %	$\lambda_{pd} = (6.55 \pm 0.46) \times 10^6 \text{ sec}^{-1}$	1.03 \pm 0.28
	4600 ppm	31.5 ppm	(32 \pm 5) %	$\lambda_{pd} = (7.18 \pm 0.67) \times 10^6 \text{ sec}^{-1}$	0.83 \pm 0.22
	10600 ppm	31.5 ppm	(32 \pm 5) %	$\lambda_{pd} = (7.75 \pm 0.77) \times 10^6 \text{ sec}^{-1}$	1.01 \pm 0.26

^aThis upper limit has been obtained by looking for fusion γ rays from reaction $(p\mu d) \rightarrow (\text{He}^3 + \mu) + \gamma$.

^bResult of spectroscopic analysis by the manufacturer.