
ERRATA

Laser Studies of the Decay Chain of Metastable Antiprotonic Helium Atoms
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In this paper we reported the first direct determination of the initial populations and level lifetimes of excited exotic atoms. We have since come to realize that an error was introduced in the normalization of the y axis of Fig. 3 by a factor of 3. Thus, the initial population of the $(n, l) = (39, 35)$ state should read $(6.7 \pm 0.7)\%$ [was $(20 \pm 2)\%$], and that of $(38, 34)$ should be $(4.0 \pm 0.3)\%$ [was $(12 \pm 1)\%$] of the total delayed events. About 10% of the metastable \bar{p} 's are found in the $\nu = n - l - 1 = 3$ sequence, instead of 30%. Accordingly, Table I needs to be replaced (see below). The conclusion of the paper is not significantly affected by these changes, although we should mention that the initial distribution of the remaining 90% metastable \bar{p} 's which do not belong to the $\nu = 3$ sequence is unknown and requires further searches for other resonances.

TABLE I. Results of the two-level and three-level fitting. The last column shows calculated level lifetimes which include side feeding.

[h]	Two-level fit	Three-level fit	Calculated values
$N_{39}(0)$	$6.7 \pm 0.7\%$	$6.7 \pm 0.7\%$	
$N_{40}(0)$	$4.0 \pm 0.3\%$	$4.0 \pm 0.3\%$	
$N_{41}(0)$		$<1\%$	
λ_{39}	$0.72 \pm 0.02 \mu\text{s}^{-1}$	$0.72 \pm 0.02 \mu\text{s}^{-1}$	$0.61 \mu\text{s}^{-1}$
λ_{40}	$0.49 \pm 0.02 \mu\text{s}^{-1}$	$0.49 \pm 0.02 \mu\text{s}^{-1}$	$0.54 \mu\text{s}^{-1}$
λ_{41}		—	
Reduced χ^2	2.4	2.4	