## PHYSICAL REVIEW D **90**, 079902(E) (2014)

## Erratum: First dark matter search results from a 4-kg CF<sub>3</sub>I bubble chamber operated in a deep underground site [Phys. Rev. D 86, 052001 (2012)]

E. Behnke, J. Behnke, S. J. Brice, D. Broemmelsiek, J. I. Collar, A. Conner, P. S. Cooper, M. Crisler,
C. E. Dahl, D. Fustin, E. Grace, J. Hall, M. Hu, I. Levine, W. H. Lippincott, T. Moan, T. Nania,
E. Ramberg, A. E. Robinson, A. Sonnenschein, M. Szydagis, and E. Vázquez-Jáuregui
(COUPP Collaboration)

(Received 25 September 2014; published 10 October 2014)

DOI: 10.1103/PhysRevD.90.079902 PACS numbers: 29.40.-n, 95.35.+d, 95.30.Cq, 99.10.Cd

In the original publication, we discussed three different data sets taken at different energy thresholds that were then combined to form final dark matter limits. We have found a mistake in the method used to combine the exposures at different thresholds. In the corrected result, the limit for a given weakly interacting massive particle (WIMP) mass is determined by the one of the three data sets with the most sensitivity for that WIMP mass in the absence of backgrounds. The value of the limit at that mass is calculated based on the observed background rate for that data set. Effectively, for low WIMP masses we use the lowest threshold data (7.8 keV), and at higher masses we use the high threshold data (15.5 keV) with the largest exposure. This correction results in a lower sensitivity by a factor of 2–3 at high masses compared to the published version. Corrected Figs. 6 and 7 are shown below.

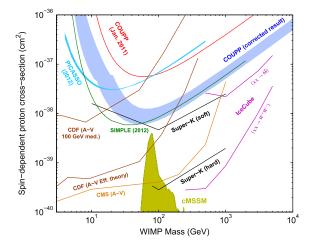


FIG. 6 (color online). The corrected 90% C.L. limit for spin-dependent proton interactions.

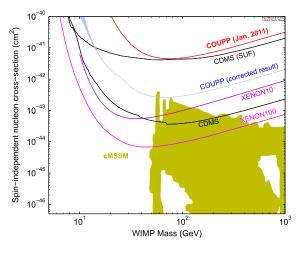


FIG. 7 (color online). The corrected 90% C.L. limit for spin-independent interactions.