Erratum: Model calculation for energy loss in ion-surface collisions [Phys. Rev. A 67, 062901 (2003)]

J. E. Miraglia and M. S. Gravielle

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In the above paper the volume and surface atomic densities were considered incorrectly. The correct values are the double of those considered; that is, the volume and surface densities are 0.00912 and 0.0346 [1]. Results in Figs. 3 and 4 of that article should be multiplied by 2, while the figure here should replace Fig. 8 of the article. Theoretical results are now in very good agreement with experiments.

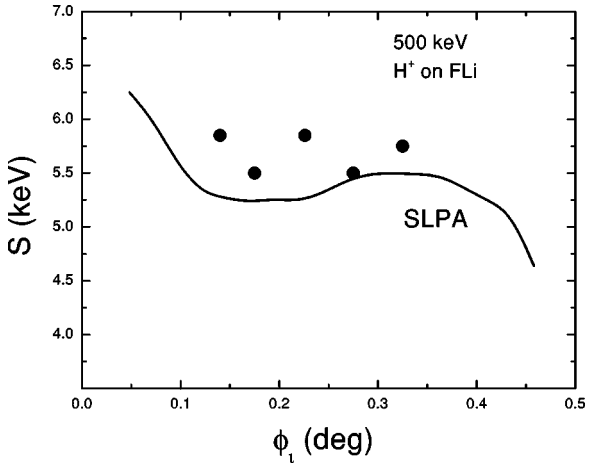

FIG. 8. Total-energy loss for 500-keV protons colliding with LiF(100) surfaces as a function of the incident angle. Notation: solid line, theoretical results calculated with the SLPA; the double-dot-dashed line labeled *S* shows results of Sarasola *et al.* [23]. Symbols are the experiments of Kimura *et al.* [30].

[1] N. W. Ashcroft and N. D. Mermin, *Solid State Physics* (Holt, New York, 1976), p. 80.

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