

Abstract Submitted
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Electron capture cross section for Li^+ on H and H_2 : Experiment and theory¹ C. CISNEROS, I. ALVAREZ, R. CABRERA-TRUJILLO, A. GUERRERO, Instituto de Ciencias Físicas, Universidad Nacional Autónoma de México — We present a theoretical and experimental study of the electron capture cross section for Li^+ in the range from 0.1 to 25 keV/amu colliding on atomic and molecular hydrogen. We report the total and differential in the angle cross section for the channel $\text{Li}^+ \rightarrow \text{Li}$ and compare with available experimental and theoretical data found in the literature. The theoretical study is based on the application of a non-adiabatic electron-nuclear dynamics approach.

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