

ERRATA

Erratum: Differential and integral cross sections for excitation of the electronic states of nitric oxide by low-energy electron impact: Observation of a ${}^2\Pi_r \rightarrow {}^2\Phi$ excitation process
[Phys. Rev. A 54, 2977 (1996)]

B. Mojarrabi, L. Campbell, P. J. O. Teubner, M. J. Brunger, and D. C. Cartwright

[S1050-2947(98)00308-4]

PACS number(s): 34.80.Gs, 99.10.+g

It was recently called to our attention [1] that the labeling of the feature $L' {}^2\Phi$ ($v'=13$) in Fig. 2 (upper frame) should be $v'=14$, and that this level overlaps the $v'=1$ level of the $H' {}^2\Pi(3d\pi)$ Rydberg electronic state. Consequently, we have redrawn the upper frame of Fig. 2 in Mojarrabi *et al.* [2] with the correct labeling (see below) and have also added the vibrational levels for the H' state.

The above corrections do not affect our conclusion [2] that the $L' {}^2\Phi$ state has been observed by low-energy electron impact. It is the appearance of the vibrational progression ($v'=11-22$) in the energy-loss spectrum given below that provides the evidence for the presence of this electronic state and the fact that levels associated with the H' state are present only weakly, if at all.

We thank Dr. Slanger and Dr. Cosby for drawing our attention to the mislabeling in Fig. 2, the possible overlap with the H' levels, and for subsequent helpful discussions on the NO spectrum.

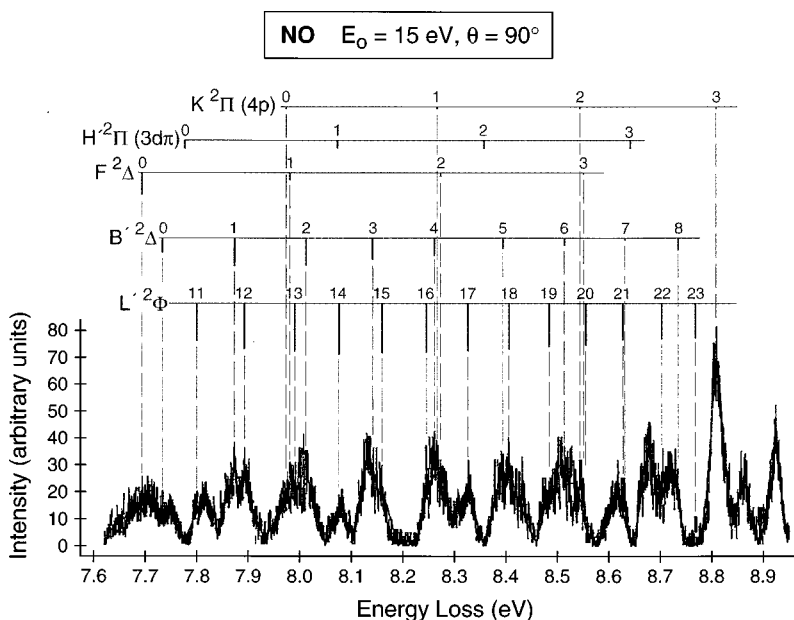


FIG. 2. Energy-loss spectrum in NO for $E_0 = 15$ eV and $\theta = 90^\circ$. The upper portion of the figure shows the vibrational progressions of the electronic states expected to be present in this energy-loss region.

[1] T. G. Slanger and P. C. Cosby (private communication).

[2] B. Mojarrabi, L. Campbell, P. J. O. Teubner, M. J. Brunger, and D. C. Cartwright, Phys. Rev. A **54**, 2977 (1996).