

Spectroscopy and Potential Energy Curves of Mg₂

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The electronic spectroscopy of ²⁴Mg₂ was first studied by Balfour and Douglas¹ in 1970. Shortly thereafter, the potential curve and long-range forces in the X ¹ _g⁺ ground state were studied by Stwalley and Li.^{2,3} The implications of this and further work for the scattering lengths and potential BEC of ²⁴Mg and ²⁶Mg will be discussed.

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1. W. J. Balfour and A. E. Douglas, *Can. J. Phys.* **48** , 901 (1970).
2. W. C. Stwalley, *Chem. Phys. Letters* **7** , 600 (1970).
3. K. C. Li and W. C. Stwalley, *J. Chem. Phys.* **59** , 4423 (1973).