EINSTEIN A COEFFICIENTS FOR VIBRATION-ROTATIONAL TRANSITIONS OF NO

M. GUTIÉRREZ, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332, USA; J. F. OGILVIE, Escuela de Química and CELEQ, Universidad de Costa Rica, San José 2060, Costa Rica.

Using an algebraic approach with software for symbolic computation, we calculated the Einstein A coefficients for vibration-rotational transitions with $\Delta v = 1$ and 2 for NO in its electronic ground state, $^{2}\Pi$, in substates both $\Omega = 1/2$ and $3/2$, up to $v = 10$. These values will be applicable in an analysis of the chemiluminescence of NO resulting from exothermic chemical reactions in the gaseous phase.