THE RESURRECTION OF THE HITEMP DATABASE AND CURRENT UPDATES FOR THE HITRAN DATABASE

<u>I. E. GORDON</u>, L. S. ROTHMAN, *Harvard-Smithsonian Center for Astrophysics, Atomic and Molecular Physics Division, Cambridge MA 02138-1516, USA.*

Unlike the HITRAN database, the analogous companion database that is designed for use at high temperatures (HITEMP) has not evolved during the last decade and therefore was not up-to-date with respect to recent measurements, theoretical calculations, and consistency with $HITRAN^a$. HITEMP is currently being resurrected, and the spectral parameters of the H_2O , CO_2 , CO, CO

In addition, some current updates to the HITRAN database will be presented, and further improvements towards HITRAN2008 will be discussed.

^aThe update of *HITEMP* database has been supported by the CHEMS (Computation of Highly Excited Molecular Spectra) SBIR project through Spectral Sciences, Inc. *HITRAN* database is supported by the NASA Earth Observing System (EOS) under the grant NAG5-13524.