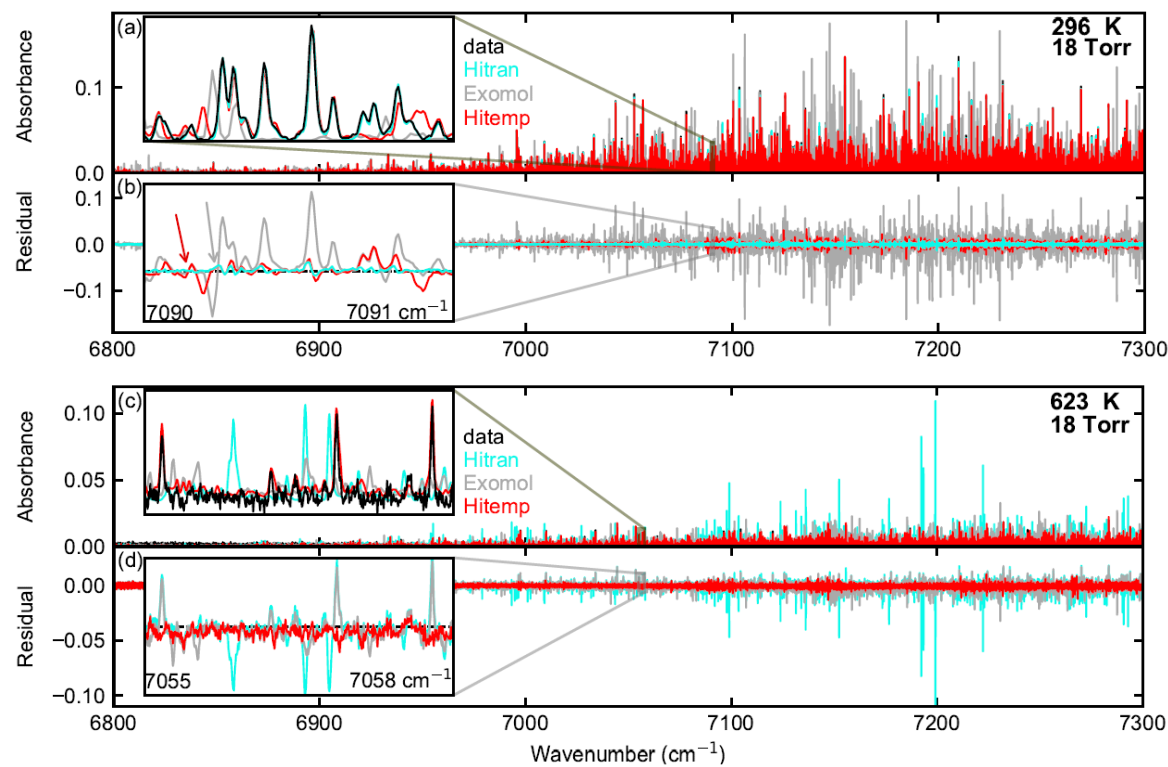


P5731: Updating CH₄ Spectroscopic Models from 6670-7630 cm⁻¹ with Dual Frequency Comb Absorption Spectroscopy up to 1000 K

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High temperature dual frequency comb spectra of the methane icosad was taken using a laboratory furnace

Comparisons with HITRAN, Exomol, and HITEMP, showed that HITRAN performed best at room and HITEMP at hotter temperatures



Significant improvements were made to HITRAN2016 by reassigning >4000 high E'' lines in HITRAN and adding ~300 new high E'' lines

