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Multispectrum analysis of air-broadened spectra in the ν_3 Q branch of 12CH4

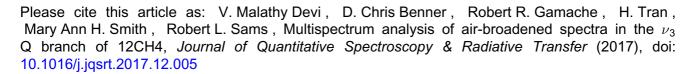
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Highlights

- .Line shape parameters for v_3 Q branch transitions of 12 CH₄ near 3015 cm⁻¹,
- .Room temperature measurements of air-broadened widths and shifts
- Off-diagonal relaxation matrix element coefficients for CH₄-air collisions
- Air-broadened widths and shifts compared with HITRAN2012 values
- Positions for 252 and intensities for 274 transitions are obtained

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