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Multispectrum analysis of air-broadened spectra in the  $\nu_3$  Q branch of 12CH<sub>4</sub>

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**Highlights**

- .Line shape parameters for  $\nu_3$  Q branch transitions of  $^{12}\text{CH}_4$  near  $3015\text{ cm}^{-1}$ ,
- .Room temperature measurements of air-broadened widths and shifts
- Off-diagonal relaxation matrix element coefficients for  $\text{CH}_4$ -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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