

## Accepted Manuscript

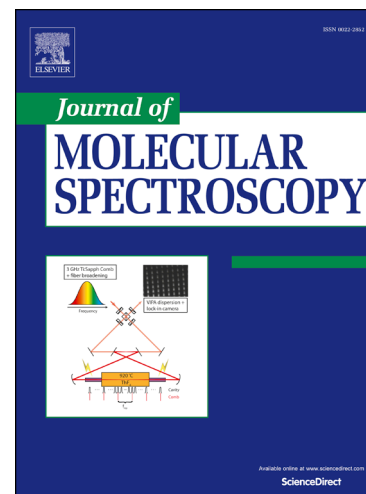
Torsion-rotation structure and quasi-symmetric-rotor behaviour for the CH<sub>3</sub>SH asymmetric CH<sub>3</sub>-bending and C-H stretching bands of *E* parentage

R.M. Lees, Li-Hong Xu, B.G. Guislain, E.M. Reid, S. Twagirayezu, D.S. Perry, M.B. Dawadi, B.P. Thapaliya, B.E. Billinghurst

PII: S0022-2852(17)30234-5  
DOI: <http://dx.doi.org/10.1016/j.jms.2017.06.013>  
Reference: YJMSP 10921

To appear in: *Journal of Molecular Spectroscopy*

Received Date: 15 May 2017  
Revised Date: 16 June 2017  
Accepted Date: 21 June 2017



Please cite this article as: R.M. Lees, L-H. Xu, B.G. Guislain, E.M. Reid, S. Twagirayezu, D.S. Perry, M.B. Dawadi, B.P. Thapaliya, B.E. Billinghurst, Torsion-rotation structure and quasi-symmetric-rotor behaviour for the CH<sub>3</sub>SH asymmetric CH<sub>3</sub>-bending and C-H stretching bands of *E* parentage, *Journal of Molecular Spectroscopy* (2017), doi: <http://dx.doi.org/10.1016/j.jms.2017.06.013>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Torsion-rotation structure and quasi-symmetric-rotor behaviour for the CH<sub>3</sub>SH  
asymmetric CH<sub>3</sub>-bending and C-H stretching bands of *E* parentage

R.M Lees<sup>a,\*</sup>, Li-Hong Xu<sup>a</sup>, B.G. Guislain<sup>a</sup>, E.M. Reid<sup>a</sup>, S. Twagirayezu<sup>b</sup>, D.S. Perry<sup>c</sup>,  
M. B. Dawadi<sup>c</sup>, B. P. Thapaliya<sup>c</sup>, and B.E. Billinghurst<sup>d</sup>

<sup>a</sup> *Centre for Laser, Atomic and Molecular Sciences (CLAMS), Department of Physics, University of New Brunswick, 100 Tucker Park Road, Saint John, NB E2L 4L5, Canada*

<sup>b</sup> *Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX 77710, USA*

<sup>c</sup> *Department of Chemistry, The University of Akron, OH 44325, USA*

<sup>d</sup> *Canadian Light Source Inc., University of Saskatchewan, 44 Innovation Blvd, Saskatoon, SK S7N 2V3, Canada*

PACS Classification: 33.20.Ea, 33.20.Vq, 33.15.Hp, 33.15.Mt

\* Corresponding author:

R.M. Lees  
Department of Physics  
University of N.B.  
Saint John, N.B.  
Canada E2L 4L5

Tel: 1-506-638-2452

E-mail: lees@unb.ca

Download English Version:

<https://daneshyari.com/en/article/7844356>

Download Persian Version:

<https://daneshyari.com/article/7844356>

[Daneshyari.com](https://daneshyari.com)