

Accepted Manuscript

Spectroscopic and structural investigation for the ground and excited states of CaNa^+ molecular ion

Soulef Jellali , H  la Habli , Leila Mejrissi , Rafika Hamdi ,
Brahim Oujia , Florent Xavier Gad  a

PII: S0022-4073(17)30616-7
DOI: [10.1016/j.jqsrt.2018.01.025](https://doi.org/10.1016/j.jqsrt.2018.01.025)
Reference: JQSRT 5971



To appear in: *Journal of Quantitative Spectroscopy & Radiative Transfer*

Received date: 9 August 2017
Revised date: 19 December 2017
Accepted date: 19 January 2018

Please cite this article as: Soulef Jellali , H  la Habli , Leila Mejrissi , Rafika Hamdi , Brah  m Oujia , Florent Xavier Gad  a , Spectroscopic and structural investigation for the ground and excited states of CaNa^+ molecular ion, *Journal of Quantitative Spectroscopy & Radiative Transfer* (2018), doi: [10.1016/j.jqsrt.2018.01.025](https://doi.org/10.1016/j.jqsrt.2018.01.025)

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.

Highlights

- Electronic energies and dipole moments for the ion CaNa^+ are theoretically investigated.
- Spectroscopic parameters are derived from potential energy curves.
- Vibrational level spacings for selected states are drawn and analyzed.
- Numerous avoided crossings are detected in PECs and its reflection in PDM and TDM functions is discussed.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7846108>

Download Persian Version:

<https://daneshyari.com/article/7846108>

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