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

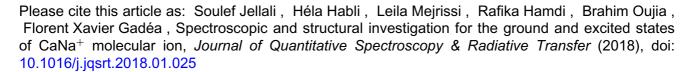
Soulef Jellali , Héla Habli , Leila Mejrissi , Rafika Hamdi , Brahim Oujia , Florent Xavier Gadéa

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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.



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