

# A Discrete Variable Approach For Investigating Tunneling Splittings and Vibrational Wavefunctions in Rare Gas-Asymmetric Top Dimers

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- A three-dimensional DVR is developed to investigate the unusual tunneling behavior in argon – vinyl chloride
- The DVR method is quick, easy to use, and yields much information for low computational cost
- The argon – vinyl chloride complex is predicted to have a high tunneling splitting and exhibit unusual behavior in its excited vibrational states

