THE INFLUENCE OF H_2O DEFORMATION ON A DEVIATION ON O–H CHEMICAL BOND

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S u m m a r y

A deviation loop is plotted in the harmonic approximation of molecular vibrations. The loop acts as a sensitive indicator reacting to the initial deformation of a water molecule due to the displacement of H atom from its equilibrium position. The deformation of the molecule leads to a displacement of the second hydrogen atom. The dependence of the corresponding Lagrangian on the orientation of the coordination plane has been determined.