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Raman spectroscopy in supersonic jets - cold molecules and clusters

Abstract: The vibrational and conformational characterization of cold molecules and clusters in their electronic ground state can profit enormously from spontaneous Raman scattering in supersonic jets, despite its small cross section and the low molecular density. Examples to be discussed include alkanes, halothane-benzene complexes, alcohol-water clusters, carboxylic acid dimers and malonaldehyde. In many cases, the Raman data complement previously obtained infrared spectra in an optimal way.