RAMAN SPECTROSCOPY OF H_2O, HDO, AND D_2O

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The rotational, and the ν_1, ν_2 and ν_3 vib-rotational Raman spectra of H_2O, HDO, and D_2O, recorded at P≈28 mbar, and T≈295 K, will be reported. A detailed interpretation of the cross sections of these spectra in terms of the molecular polarizability and of non-factorized variational wavefunctions will be presented.