INFRARED SPECTRUM OF THE (CO$_2$)$_2$-N$_2$O TRIMER MEASURED IN N$_2$O $\nu_1$ AND $\nu_3$ REGIONS.

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Infrared spectra of the (CO$_2$)$_2$-N$_2$O trimer are observed by exciting the $\nu_1$ and $\nu_3$ fundamental stretching vibrations of the N$_2$O moiety (around 1285 cm$^{-1}$ and 2224 cm$^{-1}$ respectively). Spectra are recorded using a pulsed supersonic jet apparatus with a tunable diode laser probe. Ground state parameters were previously determined from a microwave study. Analysis of the infrared spectra reveals information on the vibrational shifts upon complex formation as well as molecular parameters for the excited states. Our cluster calculation program yields a minimum energy structure very similar to that from the Orient program but in slightly better agreement with the experimental structure. Our cluster calculations indicate a close resemblance of the two lowest energy isomers to those of (CO$_2$)$_2$-OCS.