HELIUM NANODROPLET ISOLATION SPECTROSCOPY OF NO_2 AND VAN DER WAALS COMPLEXES

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We will report the infrared laser spectra of NO_2, NO_2-N_2, NO_2 - H_2O and NO_2 - O_2 complexes using Helium Nanodroplet Isolation (HENDI) Spectroscopy. These molecules were excited using an ARGOS cw PPLN OPO (Aculight) in the 3.2 - 3.9 μm spectral window and we excited the $\nu_1 + \nu_3$ transition of NO_2.