MULTIPHOTON IONIZATION SPECTROSCOPY OF NO MOLECULE EMBEDDED IN LIQUID HELIUM DROPLET

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The Multiphoton Ionization spectrum of NO molecule trapped inside of the helium droplet was recorded for the first time in the UV-visible range.This spectrum shows severe broadening due the strong interaction of NO with helium superfluid environment. The Time of Flight spectra show the formation of NO^+ (He_N) clusters with N = 0...40.