

HYDROCARBON RADICALS ISOLATED IN HELIUM NANODROPLETS

ALEXANDER M. MORRISON, STEVEN D. FLYNN, TAO LIANG and GARY E. DOUBERLY, *Department of Chemistry, University of Georgia, Athens, Georgia 30602.*

We report high resolution infrared spectra in the C-H stretch region for small hydrocarbon radicals isolated in helium nanodroplets. Stark Spectroscopy of the symmetric CH₂ stretch of the ethyl radical provides the first experimentally measured dipole moment for this species.