DISPERSED FLUORSCENCE SPECTROSCOPY OF SOME ALKOXY RADICALS IN A SUPERSONIC JET

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The dispersed fluorescence spectra of the $\widetilde{B} - \widetilde{X}$ transition of some alkoxy radicals have been obtained in a supersonic jet environment. The alkoxy radicals were produced by tripled Nd: YAG (355 nm) photolysis of the corresponding alkyl nitrite structural isomers. Fluorescence in the near ultraviolet from levels of the $\widetilde{B}$ state of the alkoxy radical, in a specific conformation, has been dispersed by a monochromator with a resolution of 0.1nm and recorded by an ICCD camera. Analysis of the spectra yield information about the vibronic structure of the ground state of the radical.