SPECTROSCOPY OF THE I2 MOLECULE IN CRYOGENIC MATRICES OF FLUORINE CONTAINING MOLECULES.

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The spectroscopy of the I_2 molecule in CF_4, C_2F_6, C_3F_8 and C_4F_{10} cryogenic solids was studied for the first time with use of steady-state one photon excitation in the Vac UV region and two photon laser excitation. In this contribution we discuss spectra and temporal behaviour of emission originating from the ion-pair states of I_2. Preliminary results for some other molecular matrices will be presented as well.

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