LASER-INDUCED FLUORESCENCE SPECTRA OF C_3Ar NEAR 25400-25600 cm^{-1}

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About 14 bands of C_3Ar near the 0 4^- 0-000 and 0 2^+ 0-000 bands of the $\tilde{A}$-$\tilde{X}$ system of C_3 have been recorded by laser-induced fluoresence with a laser resolution of 0.035 cm^{-1}. Bands at 25428 amd 25515 cm^{-1} are found to be type A, and those at 25431, 25496, and 25519 cm^{-1} are type C. Bands at 25504 and 25507 cm^{-1} are too diffuse for rotational analysis. The bands near 25500 cm^{-1} form part of two progressions with about 10 cm^{-1} separations, which appear to represent the van der Waals in-plane-bending vibration. A third diffuse feature was observed near the R(3) line of the 25519 cm^{-1} band. Possible dissociation processes will be discussed.