

## LASER-INDUCED FLUORESCENCE SPECTRA OF THE LINEAR He-ICl(X $^1\Sigma^+$ ) COMPLEX

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Rotationally-resolved transitions from both the linear and T-shaped He-ICl(X) ground-state complexes have been recorded in the ICl B  $^3\Pi_{0+}-X ^1\Sigma^+$  2-0 and 3-0 spectral regions using laser-induced fluorescence spectroscopy. Experiments performed with varying expansion conditions indicate that the lowest level within the ground state potential is localized in the linear He-ICl(X) orientation. Based on comparison with the theoretical predictions of Waterland et al.,<sup>a</sup> estimates of 21 and 17  $\text{cm}^{-1}$  for the binding energies of the ground state, linear and T-shaped He-ICl(X) complexes, respectively, are established.

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<sup>a</sup>R. L. Waterland, M. I. Lester, and N. Halberstadt, *J. Chem. Phys.* 92, 4261 (1990).