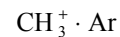
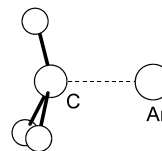


<b>108</b> IR	<b>CH<sub>3</sub>Ar<sup>+</sup></b>	<b>Methylium – argon (1/1)</b> (weakly bound complex)	<b>C<sub>3v</sub></b> (effective symmetry class) (large-amplitude motion)
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$r_0$	$\text{\AA}^a)$
C...Ar	2.053(3)

The structure of the  $\pi$ -bound complex was determined from the rotationally resolved IR photodissociation spectrum of the degenerate asymmetric C–H stretch vibration  $\nu_3$ . The geometry of the methylium subunit was assumed to be unchanged upon complexation.



<sup>a</sup>) Uncertainty was unidentified.

Olkhov, R.V., Nizkorodov, S.A., Dopfer, O.: J. Chem. Phys. **108** (1998) 10046.