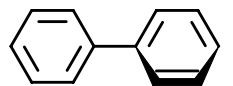
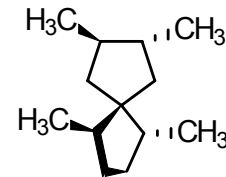
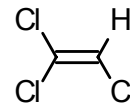
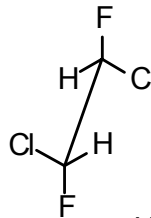
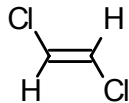
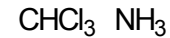
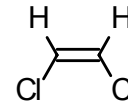
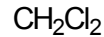
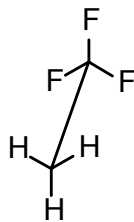
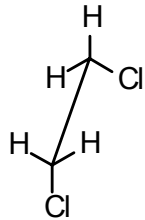
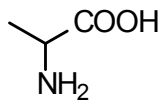
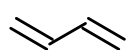
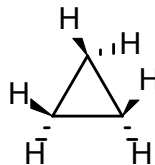
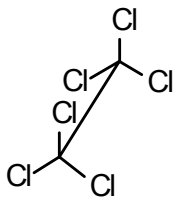
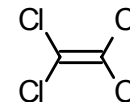
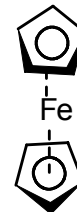
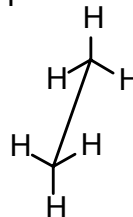
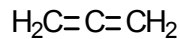


# Übungen zur Vorlesung Aliphaten, Cycloaliphaten 1

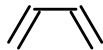
Welche Symmetrieelemente können Sie folgenden Verbindungen zuordnen?



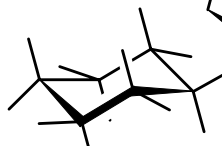
(Diederwinkel ca 30°)



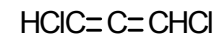
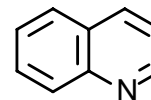
s-trans-Butadien



s-cis-Butadien



Cyclohexan C<sub>6</sub>H<sub>12</sub>



Tetraeder, C<sub>4</sub>H<sub>4</sub>

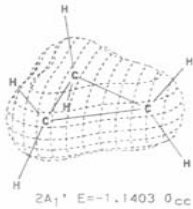
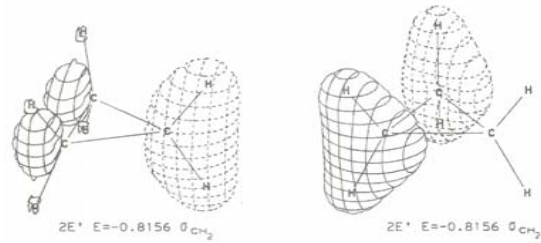
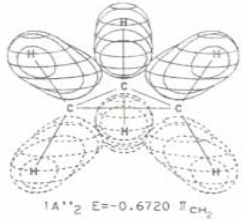
Welche Voraussetzung bei der Zuordnung der Symmetrieelemente wird stillschweigend angenommen?

# Gruppenorbitale des Cyclopropan

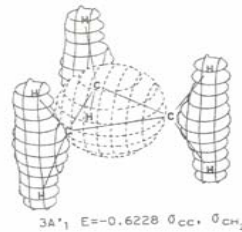
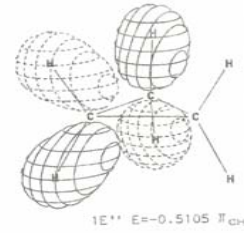
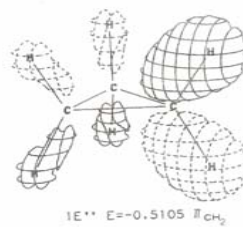
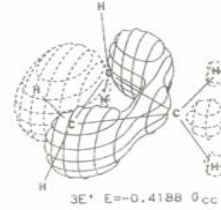
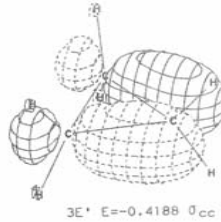
46 *Drei-dimensionale Molekülorbitale*

6. Cyclopropan

Symmetrie:  $D_{3h}$



Cyclopropan (Fortsetzung)



146 *Drei-dimensionale Molekülorbitale*

Cyclopropan (Fortsetzung)

