

# Chemie pro fyzikální obory

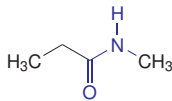
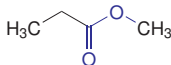
Jaromír Literák

Přírodovědecká fakulta Masarykovy univerzity

27. března 2017



- Chemie **sloučenin uhlíku** s výjimkou karbidů, CO, CO<sub>2</sub>, HCN, H<sub>2</sub>CO<sub>3</sub>, HCNO, HCNS + jejich solí.
- V současné době je známo asi 20.000.000 organických sloučenin.
- Pro popis reaktivity a vlastností sloučenin jsou klíčové **funkční sloučeniny**.



# Vazebné poměry atomu uhlíku



$\sigma$  vazba



$\pi$  vazba



${}^6\text{C}$

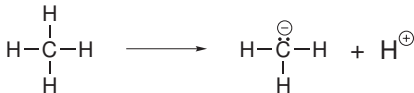
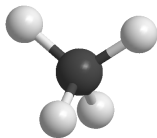
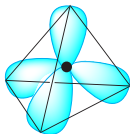
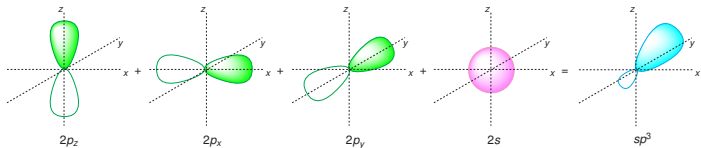


$2s^2$

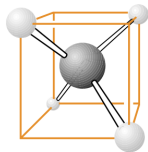


$2p^2$

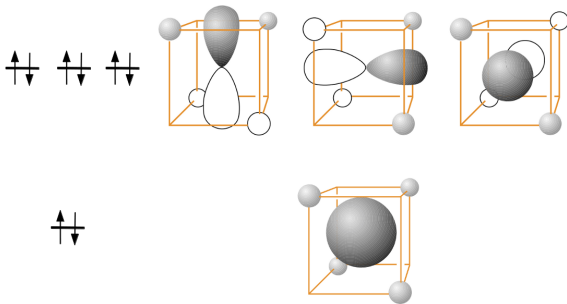
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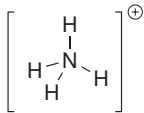
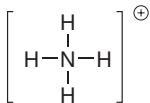
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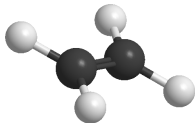
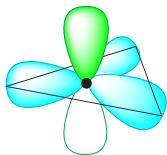
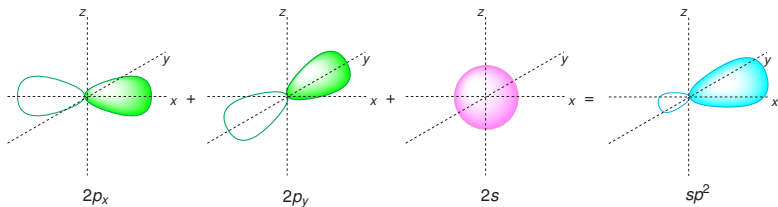
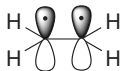
## Molekulové orbitály methanu



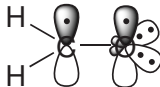
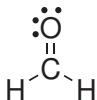
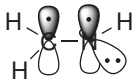
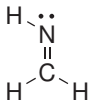
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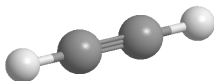
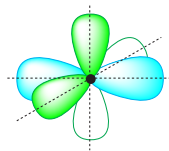
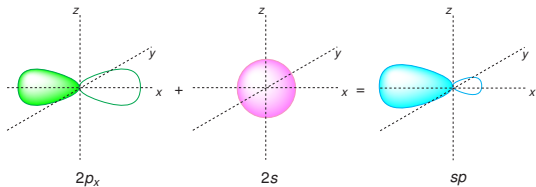
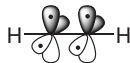
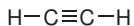


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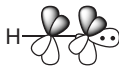




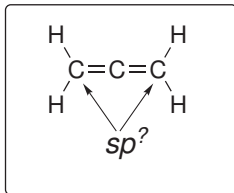
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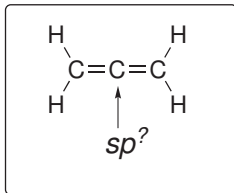
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