



**UNIVERSITÄT  
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# Hartree-Fock Theory and its Generalizations

In the talk, the Hartree-Fock (HF) approximation in quantum mechanics will be reviewed. The following particular aspects will be discussed:

- Accuracy of the HF approximation
- Lieb's variational principle and its generalizations
- Generalized HF approximation
- Symmetries and restricted HF approximation

**Friday, May 06 2022,  
16:15 in D5-153  
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