

# Experimentalphysik III

## Relativitätstheorie, Quantenphysik, Kern- & Teilchenphysik

Prof. Dr. Kilian Singer

7.12.2015

Mo 11-13 Uhr (Raum 3137)

Mo 14-16 Uhr (Raum 0282)

Sprechstunde: Mo 16-17 Uhr (Raum 1166)

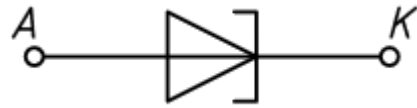
Übungen:

Mi, 15-17 Uhr (in Raum 1252: ca. 40 Plätze)

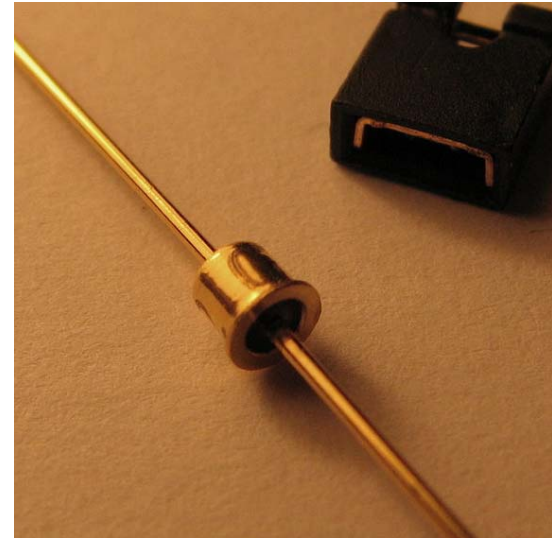
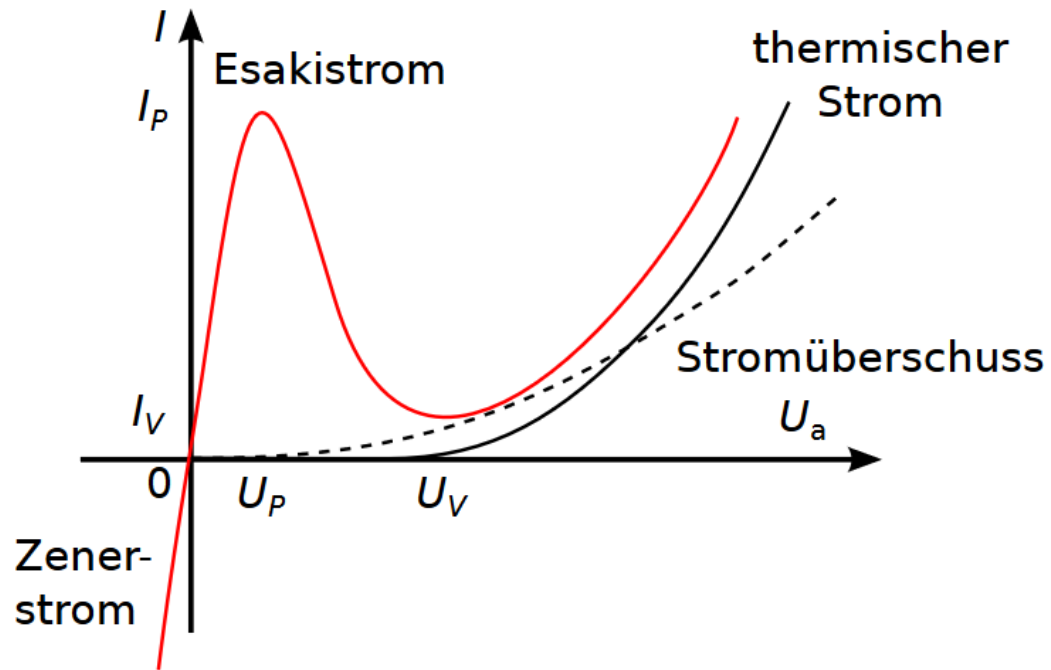
Videoaufzeichnung und Vorlesungsmaterial:

<http://adventure.zdv.uni-mainz.de/modernphysics>

<http://adventure.zdv.uni-mainz.de/chat/>

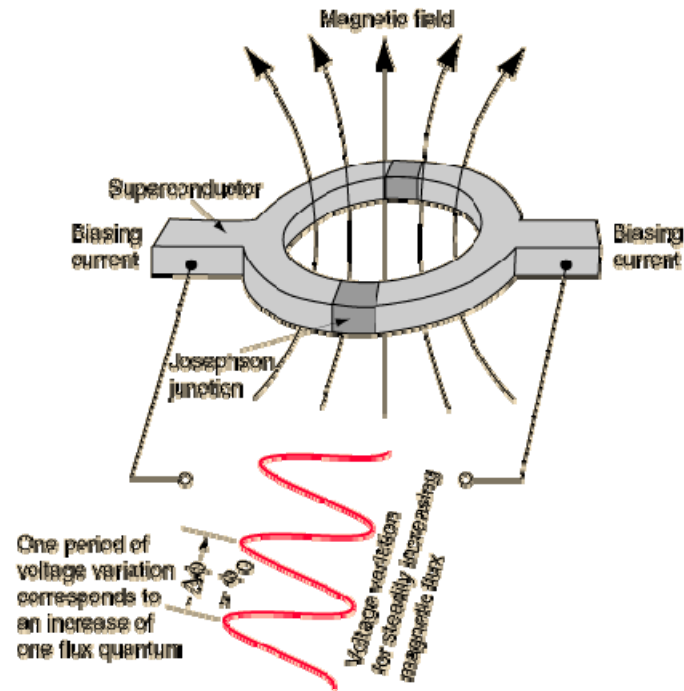


# Tunneldiode



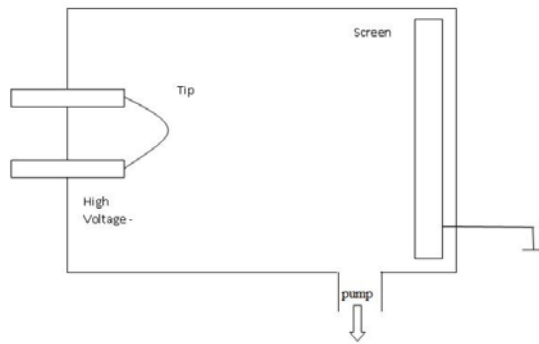
<https://de.wikipedia.org/wiki/Tunneldiode>

# SQUID (Supraconducting quantum interference device)



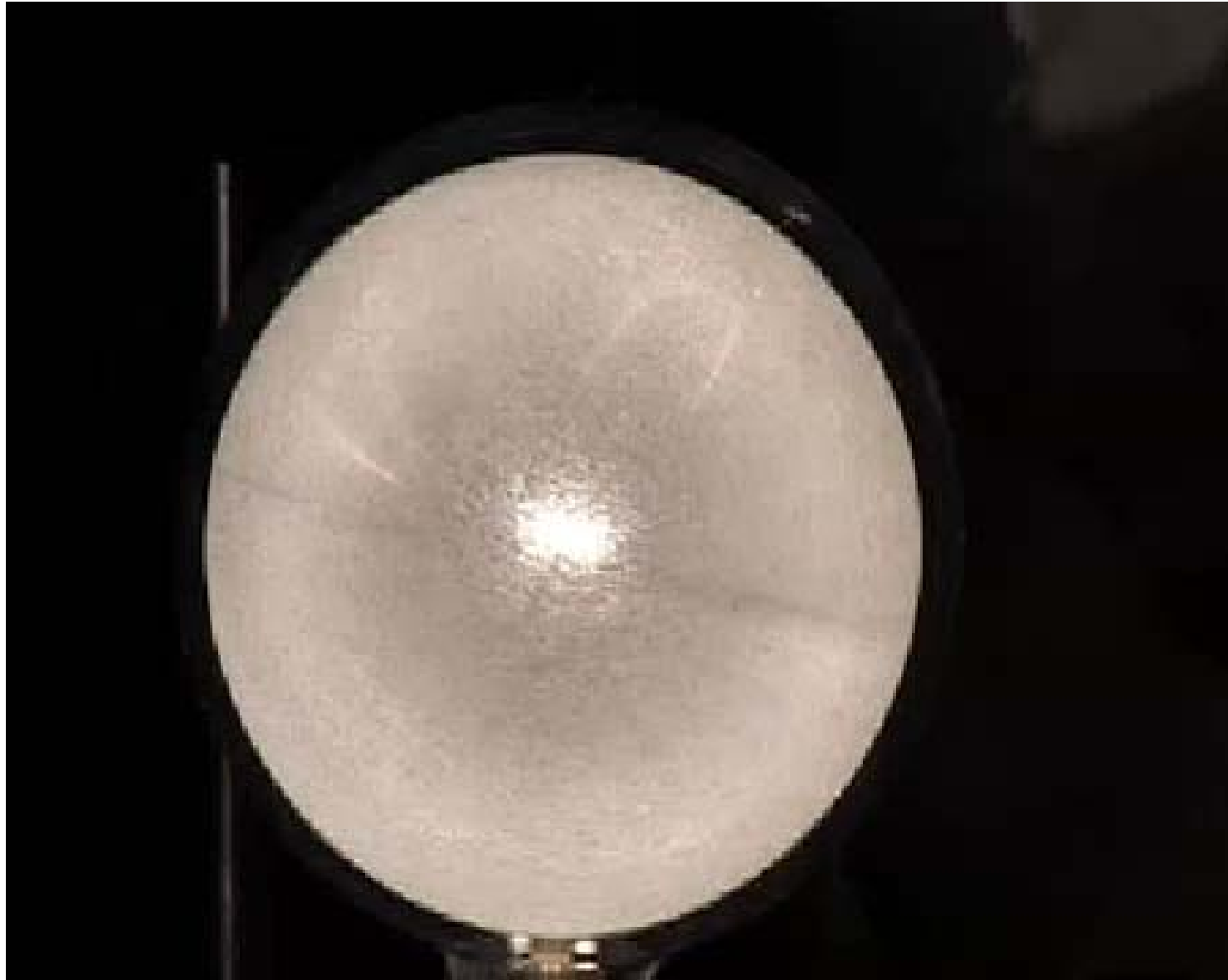
Superconducting quantum  
interference device

# Feldemissionsmikroskop

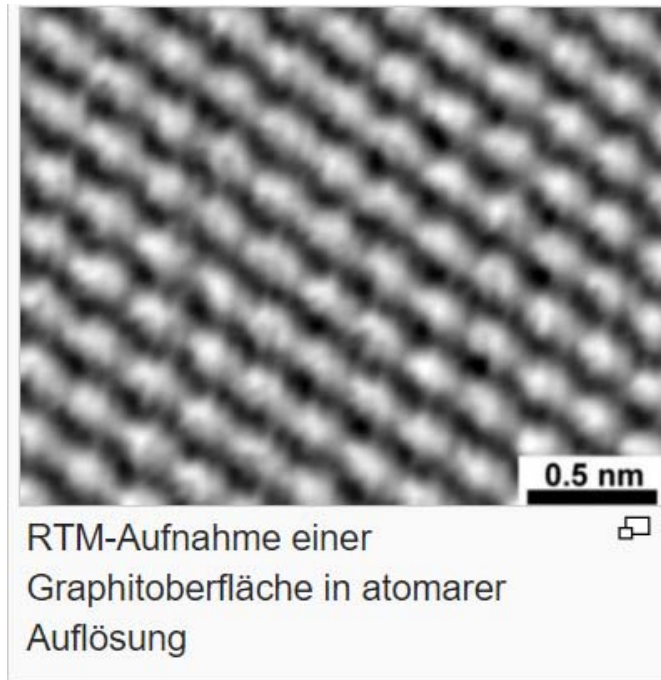
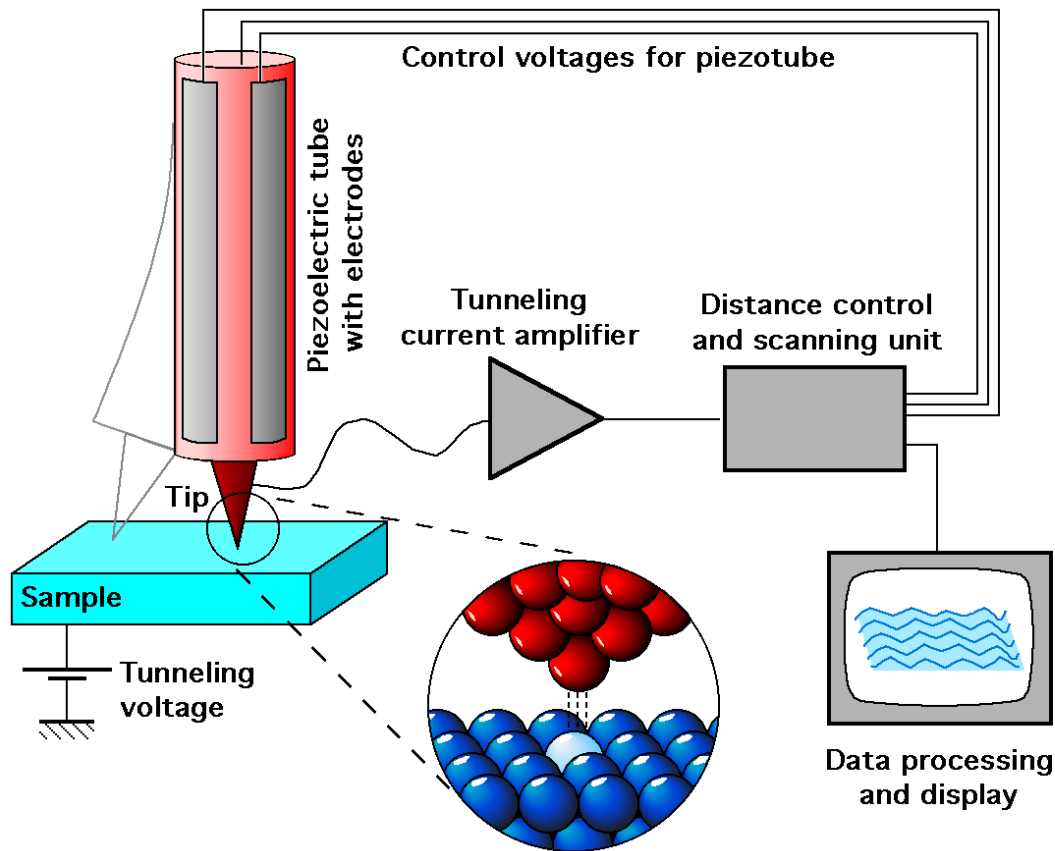


<https://de.wikipedia.org/wiki/Feldelektronenmikroskop>

# Feldemissionsmikroskop

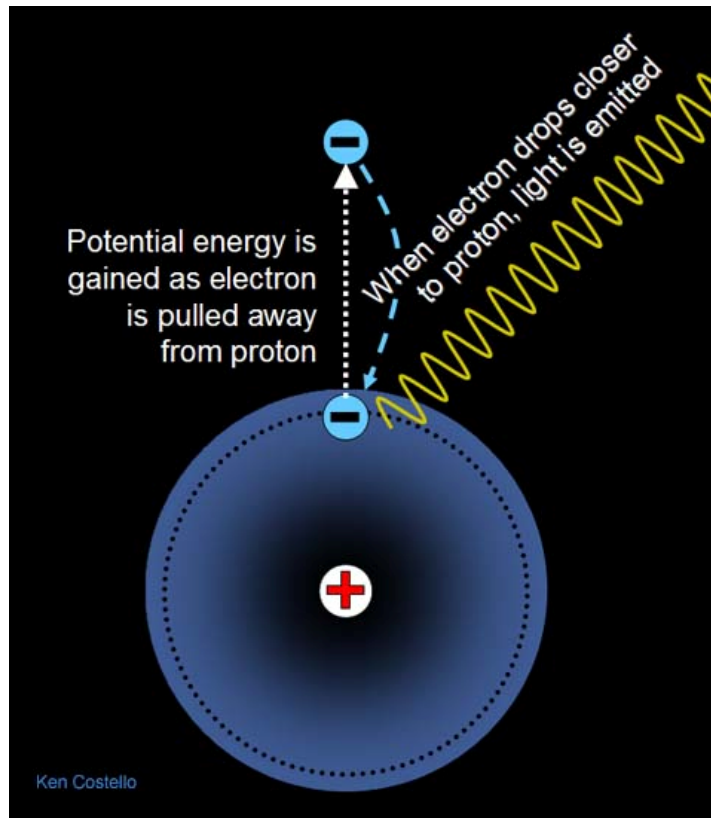


# Rastertunnelmikroskopie

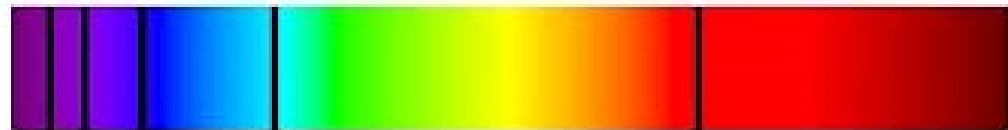


<https://de.wikipedia.org/wiki/Rastertunnelmikroskop>

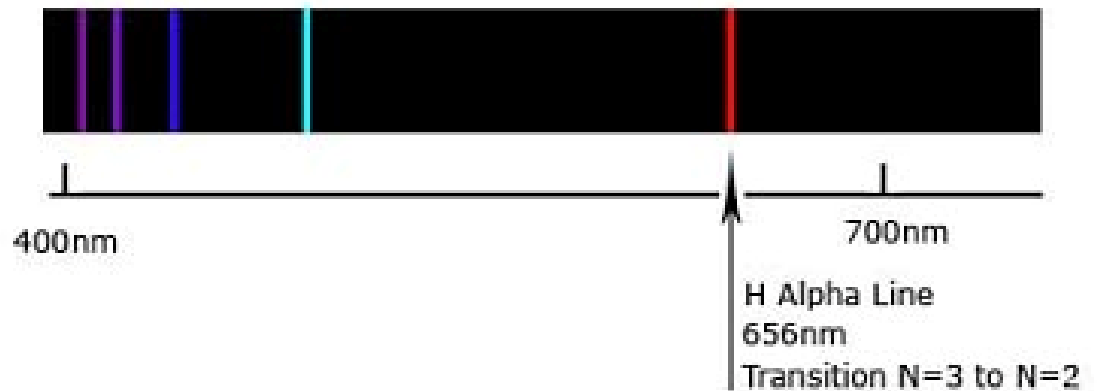
# Wasserstoffspektrum



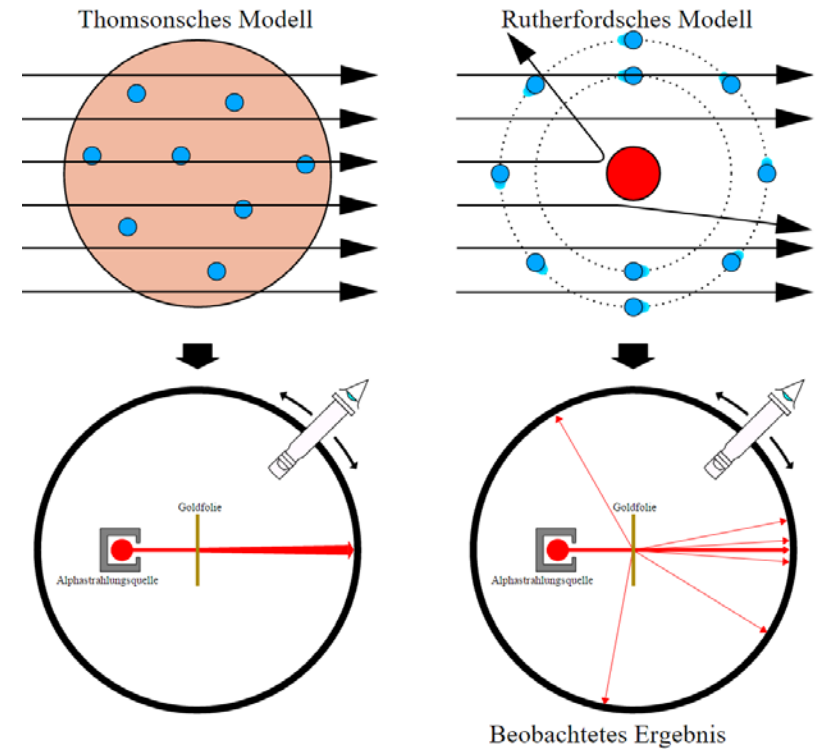
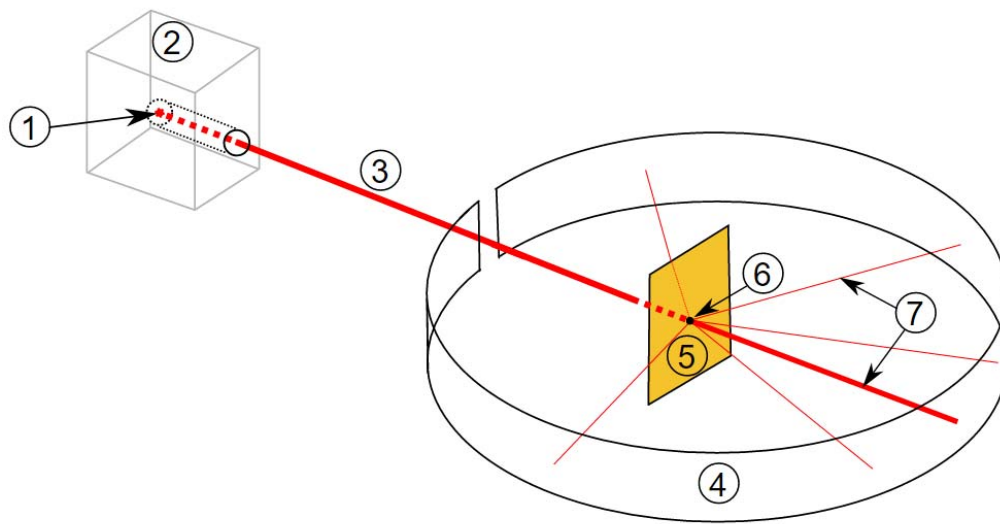
Hydrogen Absorption Spectrum



Hydrogen Emission Spectrum

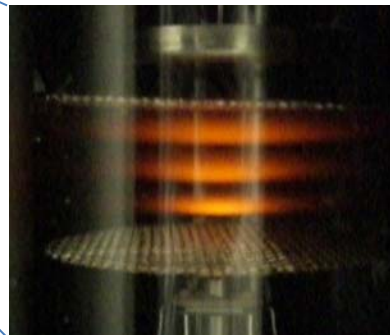
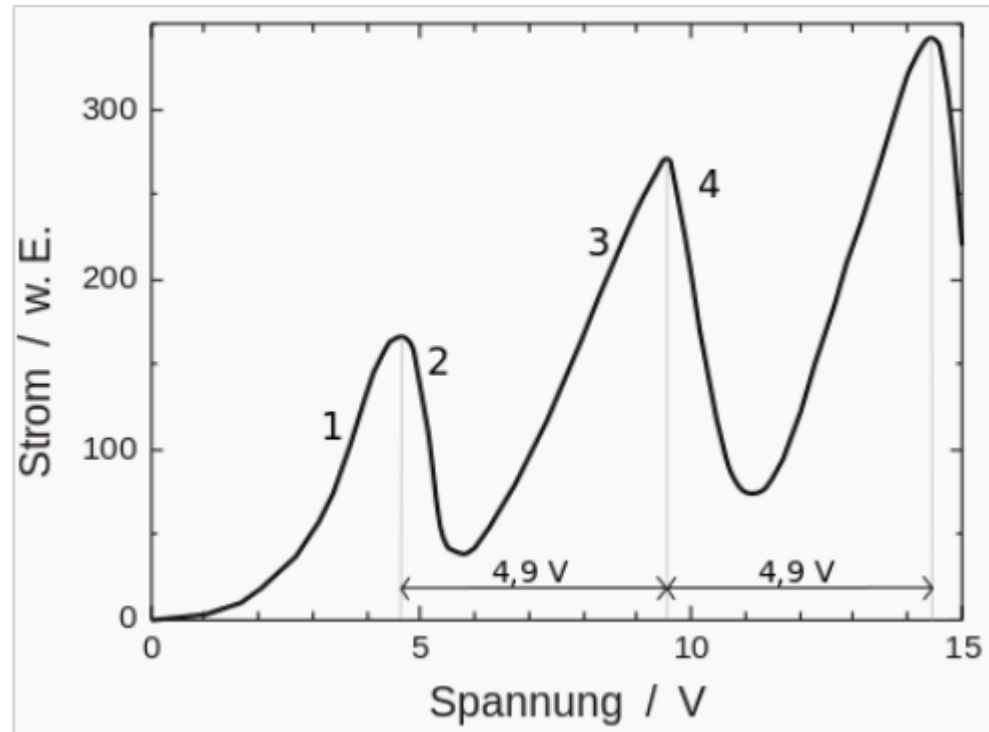
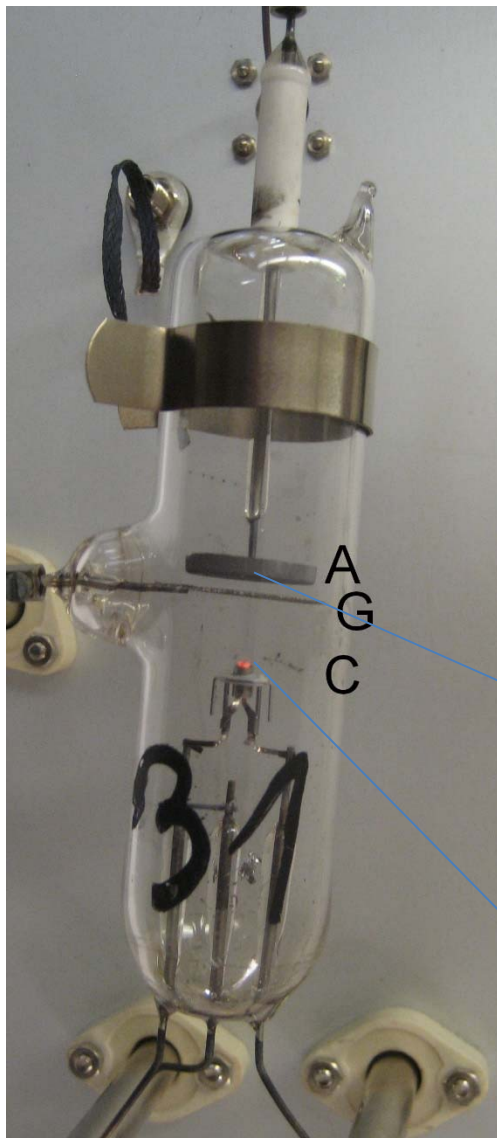


# Rutherford'scher Streuversuch





# Frank-Herz-Versuch



<https://de.wikipedia.org/wiki/Franck-Hertz-Versuch>

# Orbitale

<http://www.falstad.com/qmatom/>