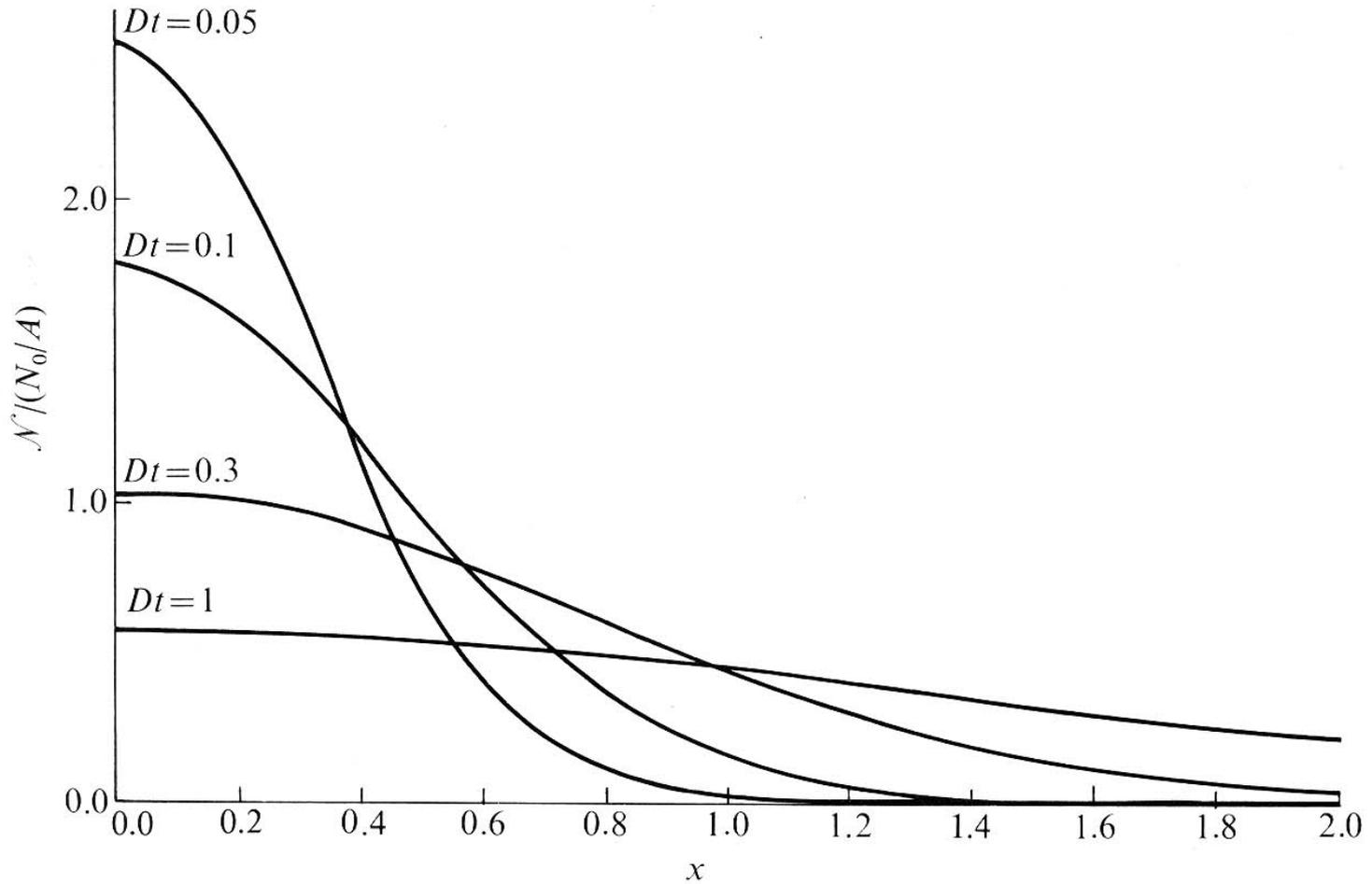
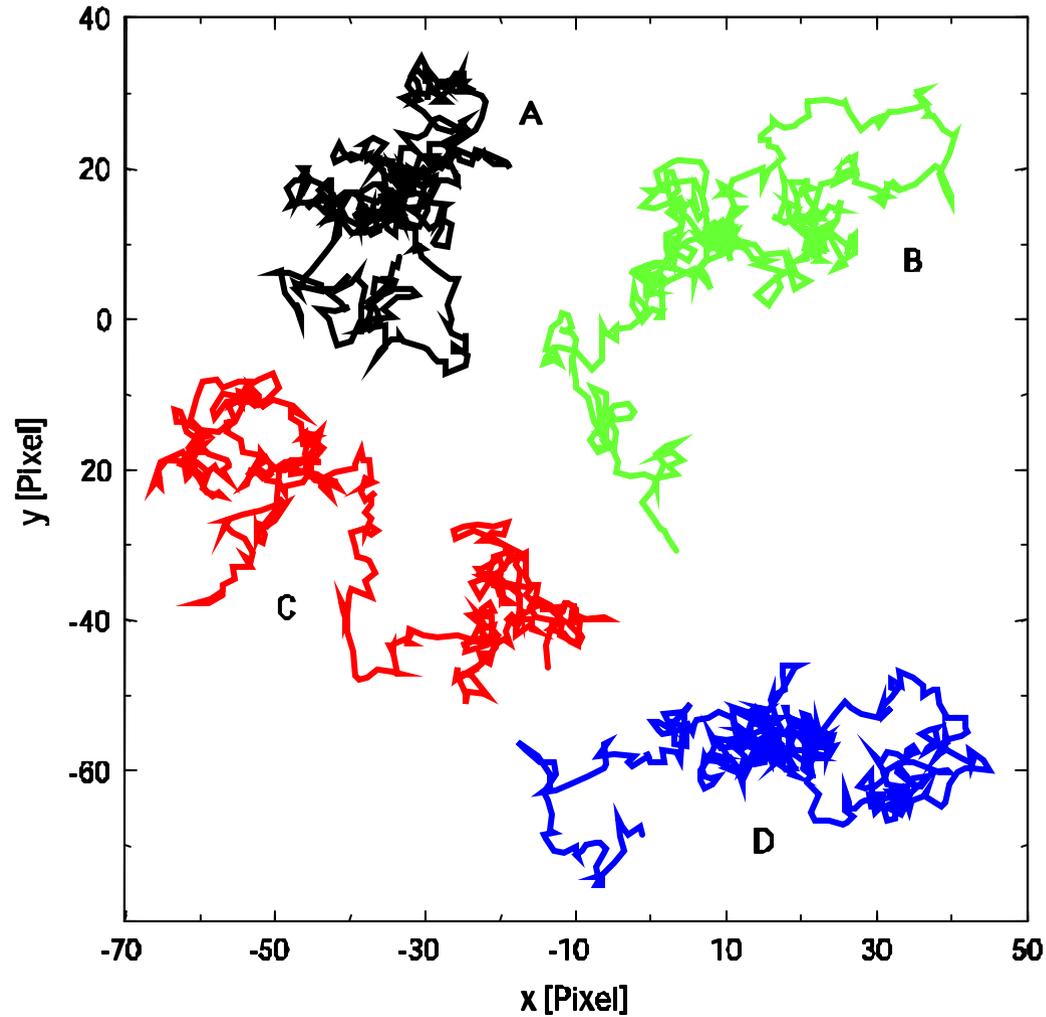


Lösungen der Diffusionsgleichung

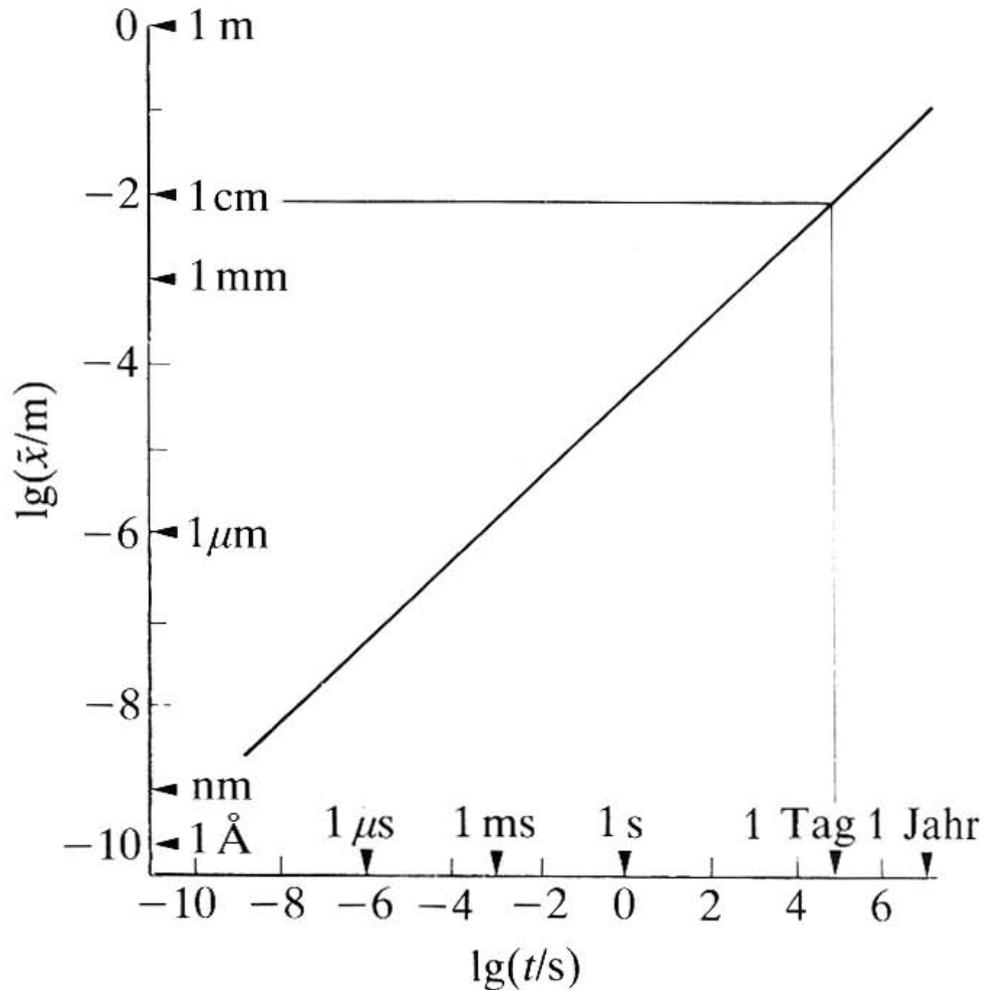


Aus: P. W. Atkins: Physikalische Chemie

Random Walks: Trajektorien (2D)



Zeitskalen von Diffusionsprozessen



Aus: P. W. Atkins: Physikalische Chemie

Fluorescence Recovery After Photobleaching

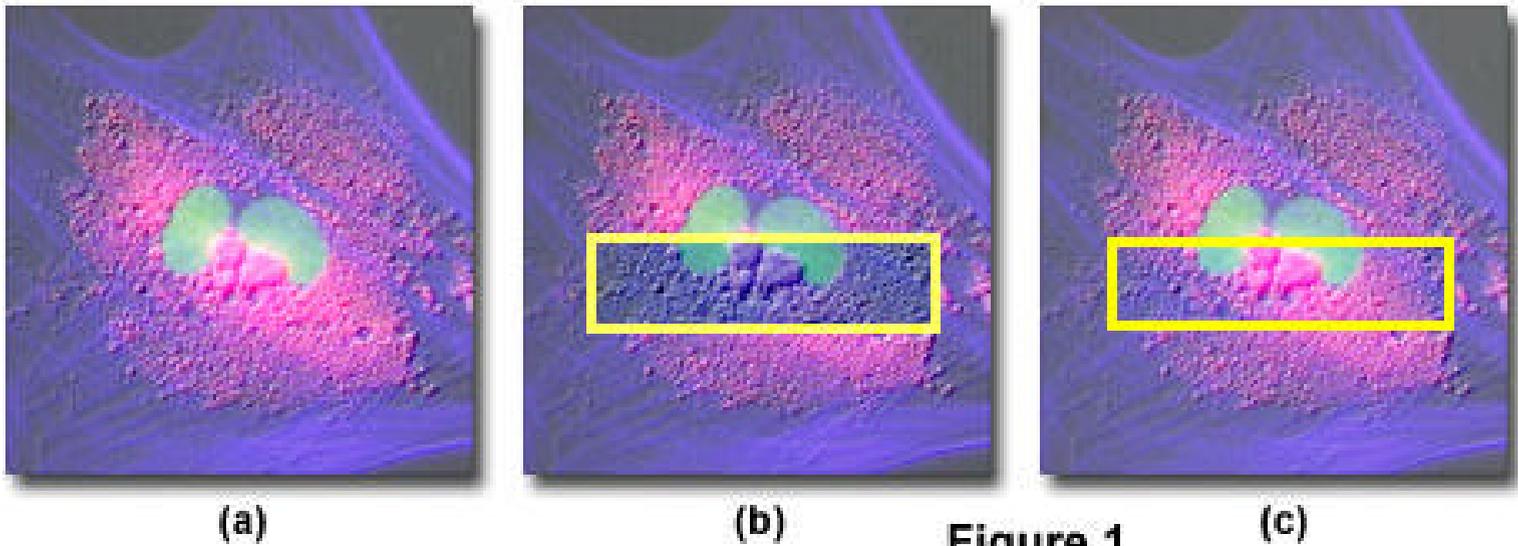
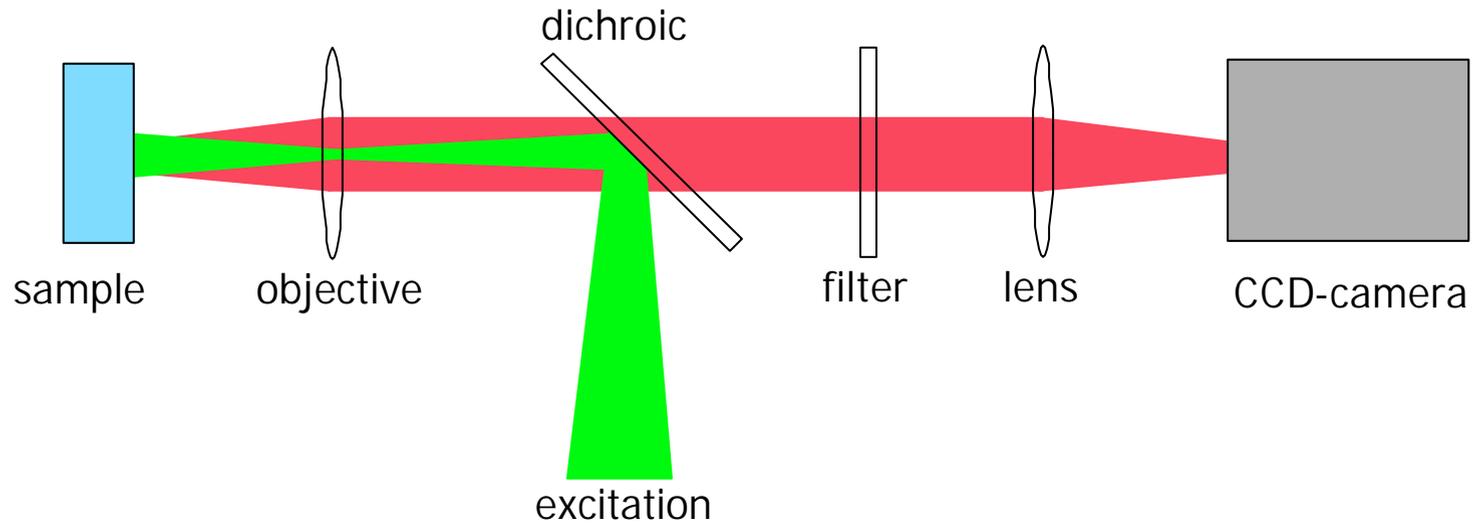


Figure 1

Quelle: Olympus, www.olympusfluoview.com/applications

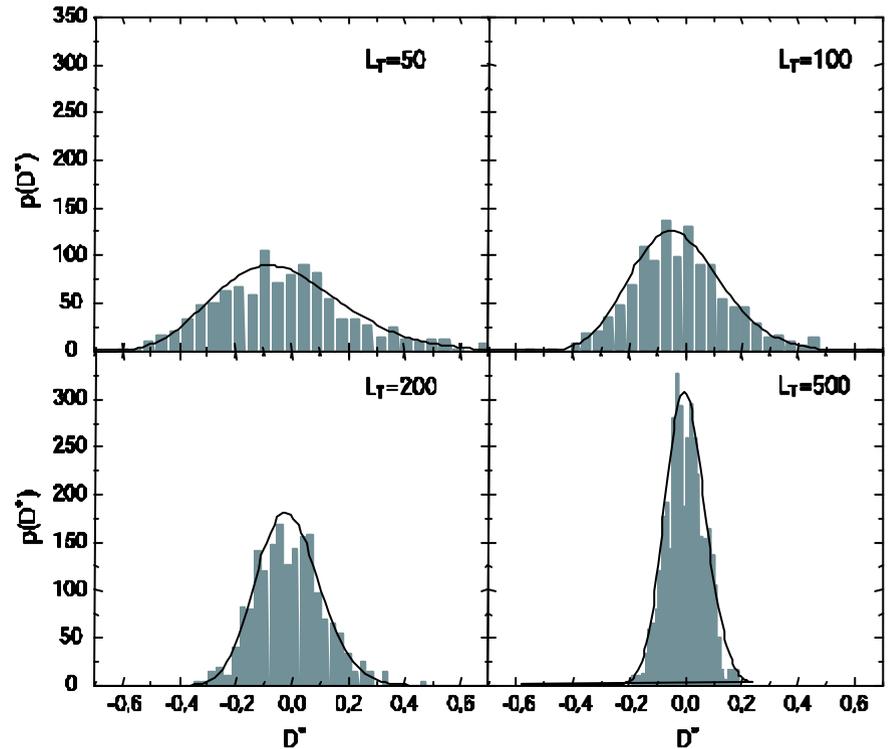
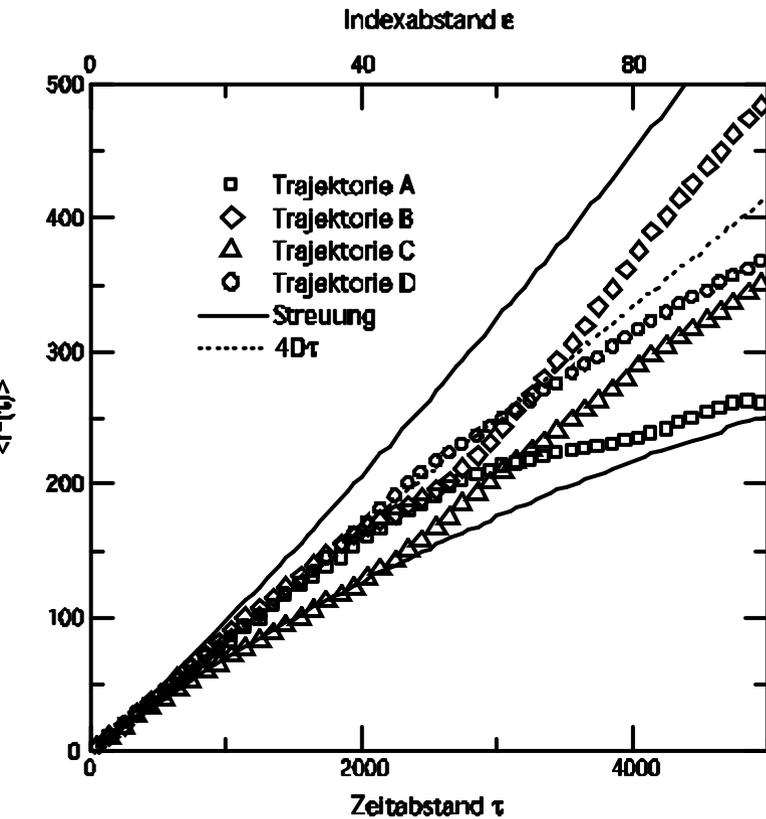
Single Molecule Tracking - Setup



Mehr Informationen: Arbeitsgruppen OSMP (Schuster), POM (Cichos)

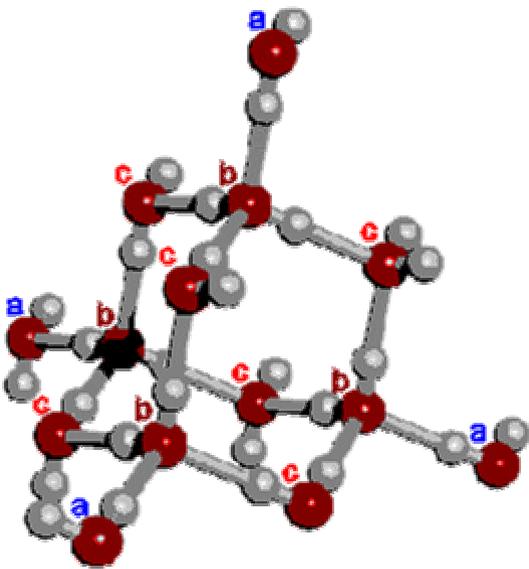
Video diffundierende Moleküle als externe Datei: [diffusion.mov](#)

Berechnung der mittleren quadratischen Verschiebung für Trajektorien endlicher Länge

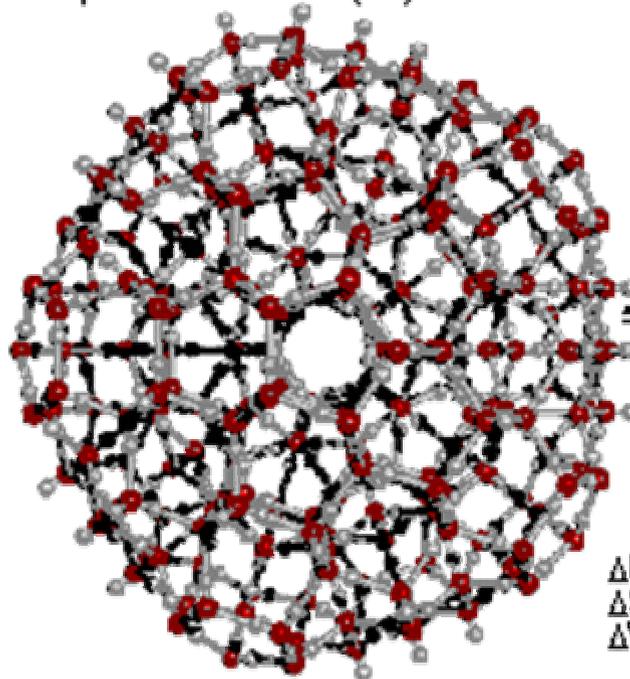


Wasser-Cluster

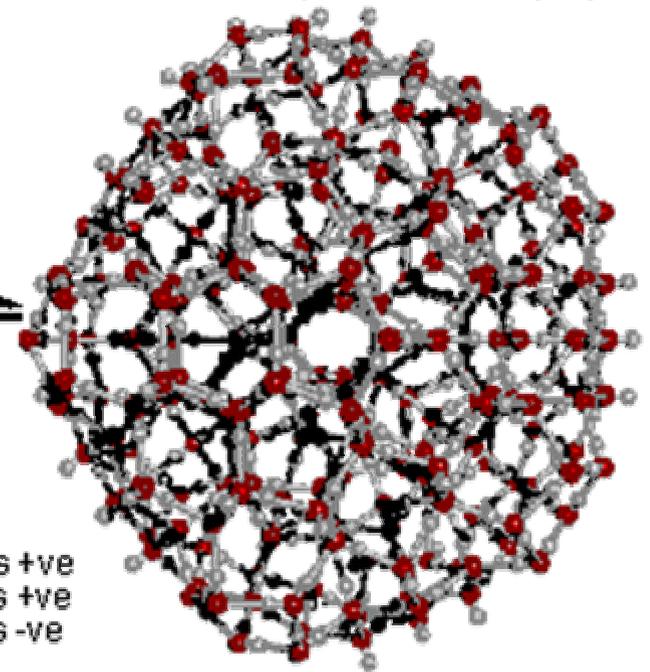
Quelle: www.lsbu.ac.uk/water
(Forty-one anomalies of water)



Expanded structure (ES)

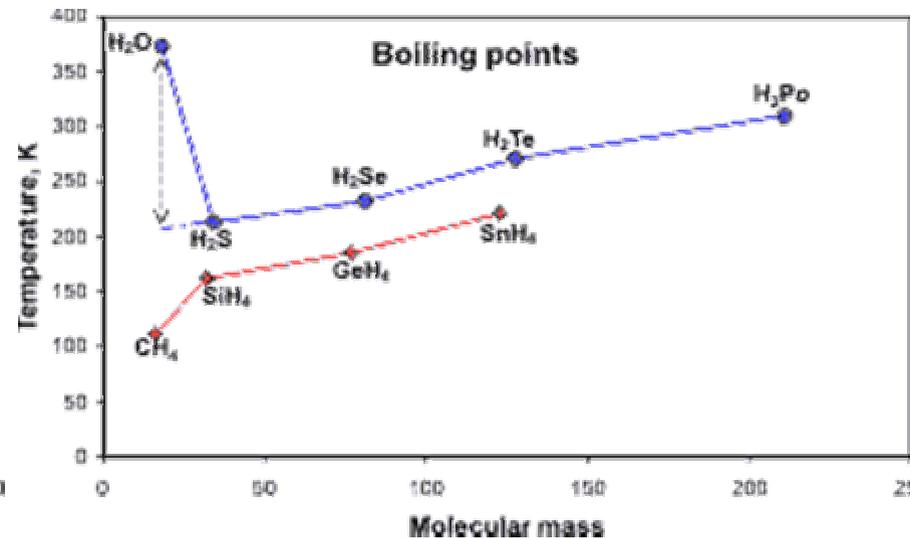
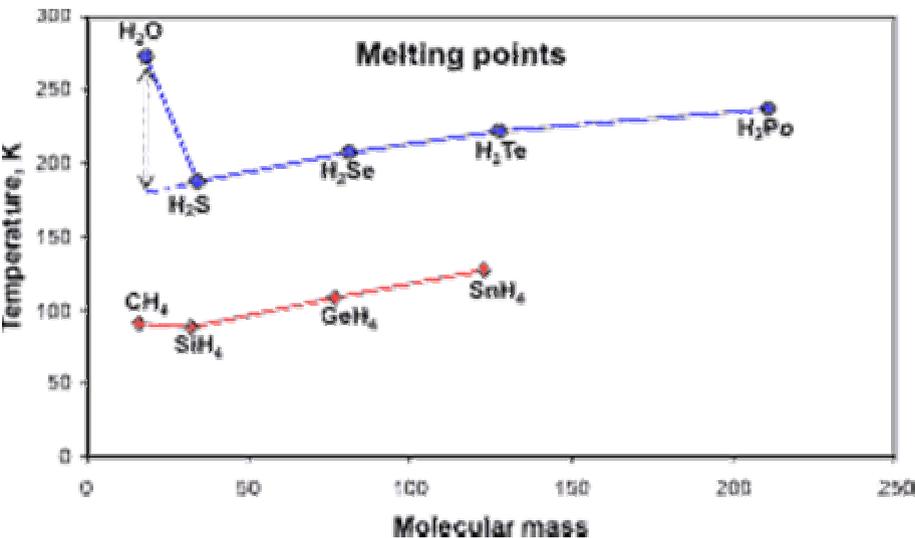


Collapsed structure (CS)



ΔH is +ve
 ΔS is +ve
 ΔV is -ve

Wasser: Schmelzpunkt/Siedepunkt



Quelle: www.lsbu.ac.uk/water
(Forty-one anomalies of water)