

## AAS – atomic absorption spectrometry

### Functional Principle:

Analytical method – proven and rapid method for quantitative and qualitative analysis of many elements (metals, semi-metals) in most aqueous solutions and solids. The AAS is based on the attenuation (absorption) of radiation by interaction with free atoms. Since each chemical element has a characteristic line spectrum, can be taken to a reference measurement without sample statements on the elements contained in a sample on the evaluation of the difference spectrum. Atomic absorption spectrometry is divided in terms of introducing a sample into the gas phase in the following sub-processes.

### Zeenit 700 – Co. Analytik Jena

- double beam spectrophotometer
- variable magnetic field
- flame atomic absorption spectrometry
- graphite furnace atomic absorption spectrometry with auto sampler
- cold vapour atomic absorption spectrometry
- different hollow cathode lamps

