

PGAA

The characteristic prompt gamma radiation induced by neutron capture in the atomic nuclei (see picture) can be used for the determination of chemical elements in the sample. In this exercise, the students learn about the interactions of neutron and gamma radiation with matter, their detection and the characterization of the detector system from their own measurement. They will also determine the neutron flux, spectroscopy data of elements and finally they will determine the composition of an unknown sample.

