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The N4DP instrument

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Neutron depth profiling (NDP) is a non-destructive nuclear analytical technique. It uses charged particles produced in neutron capture reactions for material analysis. This is done by measuring the energy loss of these particles in a sample and determining the production depth through this energy loss. Thereby a depth profile can be measured.

The N4DP instrument is a new experimental setup at the MLZs NL4b neutron guide. It extends the capabilities of the existing PGAA instrument. This contribution will present the instrument, its current capabilities alongside some selected measurement examples and the upgrades that are planned or going on for this instrument.

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