

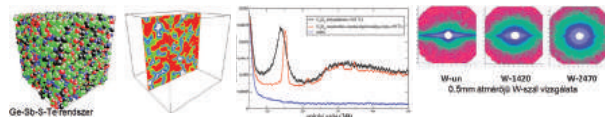


Budapest Neutron Centre

The Budapest Research Reactor (BRR) went critical in 1959. It is one of the most significant research infrastructure in Hungary and Central-Europe. The reactor operates at 10 MW power which corresponds to a Thermal flux of 2.5×10^{14} n/cm²s and Fast neutron flux of 1×10^{14} n/cm²s in the core.

The reactor has eight radial and two tangential beam ports and nearly all of them are constantly in use. Altogether thirteen instruments serve everyday user needs in the reactor hall and in Guide Halls No. 1 and 2. The BRR is operational around 3500 hours per year. The scientific utilization of the research reactor is coordinated and managed by the Budapest Neutron Centre (BNC), which is a consortium founded in 1993 and consists of several research institutions of the Hungarian Academy of Sciences.

The BRR has been utilized as a neutron source for basic and applied research and various industrial and medical applications. With the 13 experimental stations, BNC is the focal point of neutron based research in the field of physics, chemistry, biology, materials science, engineering and archaeology. BNC's research facilities and instruments are available to researchers through an international user program.



1. PSD – Powder diffractometer
2. MTEST – Diffractometer
3. RAD – Thermal-neutron and X-ray imaging
4. GINA – Neutron reflectometer with polarization option
5. SANS – Small angle neutron scattering diffractometer
6. PGAA – Prompt-gamma activation analysis

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BUDAPEST NEUTRON CENTRE



NEUTRONS FOR BUILDING A CAR!

