

The new neutron guide system of the Budapest Research Reactor

Preresenter:

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Location:

Building XIX. Seminar room

Address: KFKI campus, Bldg. 19 Lecture hall



Seminar link:

<https://ek.hun-ren.hu/s/BNC/Seminars/PetrKonik>

Abstract:

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The relocation of the NEAT TOF spectrometer from Berlin to Budapest requires considerable rearrangement of the instruments in the cold neutron hall of the Budapest Research Reactor, as well as a reconstruction of its cold source and neutron guide system.

Given that 25 years have passed since the initial installation of the guides, new design ideas and improved manufacturing quality can improve performance of all the instruments.

In this talk we will discuss the proposed new floor plan, optimization workflow, compromises during the design and the expected gain factors in sample fluxes.