

Aspects of Neutron Guides for Short Wavelength Neutrons

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In view of state of the art supermirror coatings reaching m-values as high as 8 the topic of hot (short wavelength) neutron transport via neutron guides has entered into the discussion of future instrumentation projects as for example a future guide hall south at FRM II. Here basic properties of neutron guides and the performance of hot neutron transport is discussed. Some likely scenarios for a neutron guide delivering neutron beams to a future guide hall south have been simulated and will be discussed.

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