

Beam-stop Changer Device

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The new SANS instrument, PA20, recently built at LLB is a 40 m long instrument offering the possibility to tailor the incoming beam on sample along rectangular shapes from square to horizontal or vertical slit for the GISANS option.

Beam tailoring is achieved by using various sets of diaphragms, each composed of 4 individual blinds. In order to optimize the use of such beam shapes, the beam-stop located in front of the detector inside a vacuum vessel has to be adapted.

The beam-stop changer device developed at LLB will be presented. It offers selecting among 8 beam-stop shapes, still fulfilling the requirements of working in a vacuum tank, being reliable, not creating heat and with a structure not interacting with the neutron beam.

Formal Invitation Letter Required

No

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Session Classification: Session C

Track Classification: Beam shaping, beam slits, jaws and conditioning methods