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Design concept for the shielding monolith and beam extraction system for ESS

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Abstract

Juelich participates in the design update phase for ESS in the field of the target shielding monolith including enclosure and beam extraction systems. Due to the change in the chosen target concept as well as the recent progress in neutron optical elements using advanced guide geometries a redesign of the monolith system becomes necessary. Possible concepts for the layout of the monolith including handling and access strategies for the components inside the monolith will be discussed. This paper shows the current status of work for ESS.