

Planning of a new Target Laboratory for GSI & FAIR

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The target laboratory at GSI consists of about 200 m² conventional laboratory space and about 80 m² of laboratory space with an allowance for the handling of depleted 238U and 238UF₄. The laboratories are situated in a technical building, which was put in operation in the 1970ies. Because of major refurbishing of the whole building the conventional laboratories have to move to a new space.

We describe the searching for new lab space, the safety precautions, the financial restrictions, the basic planning for building services, for special laboratory equipment and for moving and restarting the running systems.

The box coaters, the analytics and most of the high-tech devices will be moved, most of the laboratory equipment and all of the technical building installation have to be modernized or rebuilt, respectively. In order to fulfil the different demands that are inherent for the specialized techniques needed for a successful target preparation a careful planning in close collaboration with the technical infrastructure of GSI as well as with external planners is mandatory.

In the shutdown and maintenance break in 2017 the target laboratory has to move to the new laboratory premises on the campus and has to restart again to be in operation again ending of 2017 for beamtime in 2018.

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