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SPS beam dump facility

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A preliminary conceptual design of a general-purpose fixed target facility with aim of accommodating high intensity dump experiments in the SPS complex, such as the proposed SHiP experiment, has been produced. The facility has been conceived to be sited in the CERN's North Area on the Prevessin site and to receive the full SPS beam. Its design also allows the possibility to retune the configuration of the target complex and therefore accommodate different experiments, effectively leading to a multi-purpose Beam Dump Facility for discovery physics.
The contribution will summarize the baseline design of the facility, the proposed beam extraction from the SPS, the design of the target complex, civil engineering design and radiation protection aspects as well as the R&D foreseen in the next few years.

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