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Characterization of the nTOF radioactive waste

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After more than two years of cooling, the old target will be moved to its provisional storage place available in the nTOF service gallery. Detailed simulations performed with the Monte Carlo code FLUKA allow for an accurate characterization of the target activation. Additional measurements are foreseen to be performed as soon as possible during the target removal including the taking of samples from the target surface for further spectroscopy analysis. In this talk, the FLUKA simulations and the evolution of the total and specific radioactivity over ten years are presented. This defines the input needed for the transport to and the final storage outside CERN. Design trends for the new target construction based on the gained past experience are discussed.

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