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Target design of MELODY

The Muon station for sciEnce, technoLOgy and inDustrY (MELODY) is foreseen to be the first muon source in China and to be located at the China Spallation Neutron Source in Dongguan. The stand-alone target station has been studied for the surface muons and the pions production. In this report, we aim to describe the design of the target station, including the mechanical design, the radiation shielding and optimization of the target in order to provide the highest rates of surface muons and pions to the capture solenoids under certain emittance selections.

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