

## Update on the Target Station and Beamlines of MELODY (2024)

*Monday, 16 September 2024 14:25 (20 minutes)*

The Muon Station for Science, Technology, and Industry (MELODY) will be the first muon source at the China Spallation Neutron Source (CSNS) in China. In this presentation, we talk about the updated target station design including the target, shielding, proton beam dump and cooling. We also give details about our muon production target of copper, especially the AI optimization used for maximizing the surface muon production. Lastly, we summarize the design of the muon beamlines.

### Working Group

WG 3: Accelerator Physics

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