Joint Annual Meeting of ÖPG and SPS 2021



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【364】 High Intensity Muon Beam project (HIMB): how to improve the most intense muon beam in the world

Thursday 2 September 2021 15:00 (15 minutes)

Currently PSI delivers the most intense continuous muon beam in the world with up to few 10^{10} µ+/s. The High Intensity Muon Beam (HiMB) project aims at developing a new target station and muon beam lines able to deliver up to 10^{10} µ+/s, with a huge impact for low-energy, high-precision muon based searches.

To do so, the focus is on two key points: increasing the surface muon production efficiency, thanks to geometrical optimization of the target and increasing the capture and transmission of the muons, using a solenoid-based beam line design. We present the current status of the HiMB project.

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