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Beamline Final Foci Optimisations for High Intensity Muon Beams at PSI

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The High Intensity Muon Beams (HIMB) project at the Paul Scherrer Institute (PSI) will provide an unprecedented rate of 1e10 muons/sec to next-generation intensity frontier particle physics and material science experiments. As part of our work on the beamline design optimisation for the HIMB, we used differentialalgebraic transfer maps with system knobs computed using the code *COSY INFINITY* to minimise the beam spot sizes at the final foci. Levenberg-Marquardt and simulated annealing optimisers were used in the final foci optimisations.

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