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Overview of the LHC and transfer line optics configurations and tolerances

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The SPS and LHC optics have already changed during the design phase and can be expected to further change during operation.

The combined system of SPS, TI 2, TI 8 and the LHC should be well matched to allow for clean injection and minimum emittance blow-up. This implies that the transfer lines have to provide some flexibility. In addition to the requirement to match to the SPS and LHC, there are also internal constraints in the transfer lines on the phase advance differences between collimators. The expected range of optics changes and the requirements to match these will be critically analysed.

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