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Simulations of Crystal Collimation in View of SPS/CERN Beam Optics

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In this work we present the computer code to simulate the influence of crystal collimator on the particle orbits in the storage ring. The code is adopted to be used together with ICOSIM \& ICOSIM++ codes. ICOSIM \& ICOSIM++ allow observing the
particle trajectory through the sequential magnetic collimators of different types. Our program uses the input data in ICOSIM format, simulates the passage of a particle through the crystal collimator and presents the output data in the known format. Hence, the program gives the possibility to place the crystal collimator into a set of magnetic collimators.

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