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The procedure and results of magnetic field formation at the cyclotron with the magnetic channel of the beam extraction system.

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Using the magnetic channel in the beam extraction system causes perturbation in the cyclotron magnetic field. As a result the radial magnetic field distribution changes and the first harmonic of the magnetic field appears. The procedure of compensation of the magnetic channel influence is presented by the example of the formation of the DC-110 cyclotron magnetic field. The calculation results and the final magnetic field measurements are presented in this work. The magnetic field of DC-110 cyclotron is formed in a good agreement with the computer simulation results.

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poster

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