Contribution ID: **46** Type: **Oral presentation**

New optics on the basis of bent single crystals.

Wednesday, 28 September 2016 10:00 (15 minutes)

Recent experiments in CERN and IHEP have demonstrated
the simple method of focusing of hadron beams with the help
of specially fabricated bent single crystals. In these experiments
the parallel beam was transformed in the focusing one on a
distance equal approximately to 1-2 meter from a crystal.
In this report we discuss further development of focusing
on the basis of bent crystals. We present the theoretical description of transformation of beam parameters from point into parallel and focusing from point to point and give shortly results of new IHEP focusing experiment. Besides, we propose to produce bent single crystals for gamma beam focusing.

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Session Classification: S4.1: Charged Beams Shaping