

On Polarization Of The Beam Extracted With The Bent Crystal

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Particles scattered off the nuclear target acquire a polarization if the nuclei have a non zero analyzing power. This effect is enhanced when particles traverse a bent crystal. Such enhancement allows one to measure the analyzing power at the level of 10^{-4} at the square of transfer momentum $|t| < 10^{-5} \text{ [GeV/c]}^2$. If it happens to be that the analyzing power is big enough, then one can get the beam polarization more then 50% after extraction of the primary beam with the bent crystal.