Preliminary results of the spin parameters study in the $\Lambda_c \to \Lambda \pi$ decay channel.

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Using data from FERMILAB E831(FOCUS) experiment we have done the first measurement of the polarization of Λ_c 's produced in high-energy (< E >= 180 GeV) photon-nucleon interactions. For this we have analyzed the decay mode $\Lambda_c \to \Lambda \pi$. We have measured the product αP , where α is the weak decay asymmetry parameter, and, using the CP conservation hypothesis, we have gotten the polarization P. We have found that in photoproduction the Λ_c is produced with a small polarization, between 8% and 30%. As we have low statistics and the errors are large, the polarization is compatible with zero within 1σ . The results are preliminary.