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Measurements of the spin observables in reaction $p\uparrow + p \rightarrow \Lambda\uparrow + X$, in the frame of the SPASCHARM program.

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We propose to measure eight observables in the reaction $p\uparrow + p \rightarrow \Lambda\uparrow + X$, where polarized proton beam strikes the unpolarized proton target and produces polarized lambda hyperons. This observables include one spin independent parameter inclusive lambda production cross section Sigma, two single spin dependent parameters polarization Pn and analyzing power An and five two spin transfers parameters Dnn, R, R', A and A'. All this parameters have never been measured experimentally. Sigma and polarization intensively measured in different experiment, analyzing power were measured at 18.5 GeV/c beam momentum and 200 GeV/c. The first attempt to measure 6 parameters were made by Swallow due to absence of longitudinal polarized beam only 6 parameters were measured. We have a goal to measure all 8 parameters using both transverse and longitudinal polarized beam. The construction of special beam channel is under development.

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