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Pion induced Reactions for Charmed Baryons ATSUSHI HOSAKA, SANG-HO KIM, RCNP, Osaka University, HYUN-CHUL KIM, Department of Physics, Inha University, HIROYUKI NOUMI, KOTARO SHIROTORI, RCNP, Osaka University — We study pion induced reactions for charmed baryons B, $\pi + N \to D^* + B$. First we estimate charm production rates in comparison with strangeness production using a Regge model which is dominated by vector (D^* or K^*) Reggeon exchange. Then we examine the production rates of various charmed baryons B in a quark-diquark model. We find that the production of excited states are not necessarily suppressed, a sharp contrast to strangeness production, which is a unique feature of the charm production with a large momentum transfer.

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