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Measurement of deep hole states in ^{40}Ca by 392 MeV (p,2p) reaction YUSUKE YASUDA, HARUTAKA SAKAGUCHI, SATORU TERASHIMA, SATOSHI KISHI, JUZO ZENIHIRO, Kyoto University, TETSUO NORO, TOMOTSUGU WAKASA, HIDETOMO YOSHIDA, TAKASHI ISHIDA, SHUN ASAJI, TAKAHISA YONEMURA, YOHISUKE HAGIHARA, Kyushu University, KICHIJI HATANAKA, YASUHIRO SAKEMI, MASARU YOSOI, YOHEI SHIMIZU, KINIHIRO FUJITA, YUJI TAMESHIGE, RCNP Osaka University, HIROYUKI TAKEDA, RIKEN, MASATOSHI ITOH, Tohoku University, TAKAHIRO KAWABATA, CNS University of Tokyo, MAKOTO UCHIDA, Tokyo Inst. of Tech. — We performed $^{40}\text{Ca}(p,2p)$ experiment with 392 MeV polarized proton beam at RCNP Osaka University and measured recoil momentum distribution of cross section and analyzing power for low lying and deep hole states in ^{40}Ca . The aim of this experiment is to obtain information on the spectroscopic factor and the width of the deep orbital states such as the $1s_{1/2}$ state of medium nuclei for understanding the nuclear structure and correlations in deep hole states. We analyzed deep hole states with L decomposition analysis method which disentangle the contributions of each orbital states from separation energy spectra. We will report the result of ^{40}Ca measurements.

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