

X-ray spectroscopy of Ξ^- -Fe atom in the J-PARC E03 experiment

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We are aiming for measurement of X rays from Ξ^- atom to obtain the information on Ξ A interaction. In 2021, We performed Ξ^- -Fe atomic X-ray spectroscopy experiment (J-PARC E03) at J-PARC K1.8 beam line. Ξ^- hyperons were produced via the (K^-, K^+) reaction. Beam K^- and scattered K^+ were measured by magnetic spectrometers and X rays from Ξ^- -Fe atom were detected by Ge detector array. We will show the overview of the experiment and the analysis status.

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