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Status of the Si-detector development for FAZIA

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A unit detector of the FAZIA(Forward-angle A and Z Identification Array) telescope consists of three layers with two silicon sensors and a CsI scintillator. The silicon sensors measure the energy loss of charged particles passing through or stopped in the detector. The FAZIA detector can distinguish charges up to Z = 52 and isotopes up to Z = 25 by using ΔE-E correlation and the pulse shape analysis (PSA). The Korean FAZIA group has developed silicon sensors with the thickness of about 750 and 115 μm, employing various configurations. The energy resolutions measured by using the Am-241 alpha radiation source can provide one of the criteria for adoption. In this presentation, the characteristics of the prototype FAZIA silicon chips, measured by using the Am-241 source, are presented.

Research field of your presentation

Experimental Low-energy nuclear physics

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