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Application of Silicon Strip Detector to μ SR Measurement at J-PARC MLF

A silicon strip detector has been developed for positron tracking from muon decay at the J-PARC muon g-2/EDM experiment. The detector is composed of silicon strip sensors with a strip pitch of 190 μ m and features a readout with a 200 MHz sampling clock. It can be operated at 25 Hz on the J-PARC MLF muon beam line. The application of the detector to μ SR measurement at J-PARC MLF is being considered. The specifications of the detector and its prospects for μ SR measurement will be presented in this article.

Email

yamanaka@artsci.kyushu-u.ac.jp

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Kyushu University

Supervisors Name

Supervisors Email

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Primary author: YAMANAKA, Takashi (Kyushu University)

Co-authors: SENDAI, Hiroshi (KEK IPNS); YAMAOKA, Hiroshi (KEK IPNS); SASAKI, Junichi (KEK IPNS); Prof. TOJO, Junji (Kyushu University); Mr AWA, Katsunori (Kyushu University); Prof. TANAKA, Manobu (KEK IPNS); HIRAI, Masatoshi (KEK-IMSS); SHOJI, Masayoshi (KEK IPNS); Prof. SAITO, Naohito (KEK IPNS); Dr SASAKI, Osamu (KEK IPNS); Dr HONDA, Ryotaro (KEK IPNS); Mr AZUMA, Ryuto (Niigata University); Dr FUKUMURA, Seiso (Niigata University); Dr OGAWA, Shinji (KEK IPNS); Dr SHIRABE, Shohei (Kyushu University); Mr DOI, Shunsuke (Kyushu University); TAKESHITA, Soshi (KEK IMSS Muon); Dr SUEHARA, Taikan (ICEPP, University of Tokyo); Mr SATO, Taiki (University of Tokyo); Prof. YOSHIOKA, Tamaki (Kyushu University); Dr KUME, Tatsuya (KEK ARL); Dr KISHISHITA, Tetsuichi (KEK IPNS); TAKATOMI, Toshikazu (KEK ARL); Dr SUDA, Toshimi (Tohoku University); Prof. MIBE, Tsutomu (KEK IPNS); Dr SEINO, Yoshiaki (Toyama College); FUJITA, Yowichi

(KEK IPNS); Dr HONDA, Yuki (Tohoku University); Dr OKAZAKI, Yuta (KEK IPNS); Dr SATO, Yutaro (Niigata University)

Presenter: YAMANAKA, Takashi (Kyushu University)

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