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Integrated circuit of coordinate detector for detection of charged particles

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New-type coordinate detector is considered which is based on special-purpose integrated circuit designed for detection of charged particles, local amplification and direct transmission of signal into computer. It is shown that such detectors make it possible to achieve a higher coordinate determination accuracy and processing speed as well as to bring down their cost as compared with modern detectors. It is possible to manufacture mosaic-structure large-sized detector panels with an active area-to-dead area ratio of not lower than ten. Detectors of this type could be applied in future space and balloon experiments.

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