

Multichannel Printed Circuit Units for Collecting Detector Signals

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Abstract

The results of works on the creation of miniature multichannel printed circuit units (PCU) for an analog processing of multiwire detector signals are presented. The prototype versions of those PCUs were the topic of a report at the previous symposium [1].

The discussed PCUs measure 90 x 40 mm sq. and contain 16 channels, each of which is a series connection of a preamp, shaper and comparator, built with the ICs, described in [2]. The PCUs are implemented on the basis of four-layer PCBs, using SMT.

References

- [1] E. Atkin et al.: *Printed circuit units for processing signals in nuclear experiments*. In the book: XVII International Symposium on Nuclear Electronics, Varna, September 15-21, 1997
- [2] Yu. Mishin, A Pleshko: *ICs for data read-out from wire tracking detectors*.