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The electronic for TOF system of the CMD-3 detector

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Content

The time-of-flight system now is installed at the CMD-3 detector of the VEPP-2000 electron-positron collider at the Budker Institute of Nuclear Physics. It is based on the strips of organic scintillator with shifter fibers readout and silicon photomultiplier (SiPM) photodetectors. The new electronics for TOF subsystem is designed at the Budker Institute of Nuclear Physics. The main feature of the new electronic is using ripple-free technology to provide bias voltage for SiPM photodetectors. Also this design has very low power consumption. It allows the individual controlled bias voltage generator to be integrated to front-end electronics, near the photodetectors. In this paper the structure of the TOF electronic hardware is described.

Summary

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