

## **SUBNANOSECOND THREE-SECTION ELECTRON ACCELERATOR\***

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The design and test results of a subnanosecond accelerator are presented, in which three sections are used (a double forming line, a ferrite line and a line with variable wave resistance), as well as a gas-filled diode. The beam current amplitude of ~2.7 kA was recorded behind the anode foil at the pulse duration of ~370 ps (FWHM). The accelerator allowed studying Cherenkov radiation, as well as pulsed cathodoluminescence, in the samples made of KU-1 quartz glass, polymethyl methacrylate, and KBr.

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