

Test of microchananel plates in magnetic field up to 4.5 Tesla.

MCP based devices are promising candidates for fast timing measurements in high energy physics experiments with high magnetic fields. Experimental setup based on superconductive solenoid with 120mm bore was created in BINP. Influence of the strong magnetic fields up to 4.5T on the MCP photomultiplier parameters was studied. Several types of photodetectors produced in Novosibirsk were tested. Tested samples had MCP channel diameter from 3.5 to 10 μm . Dependences of time resolution and amplification on magnetic fields are presented.

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