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The use of CVD diamond in gas detectors of charged particles for experiments in high-energy physics.

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Brief overview on microstructure gaseous detectors (MSGD) used in high-energy physics and description of technological steps for producing gas electron multiplier (GEM) made of polycrystalline CVD diamond are presented. GEM is widely used in modern gas detectors of ionizing radiation in experiments on high-energy physics at accelerators and in other fields of science. The test results of the gas electron multiplier m ade of radiation-hard material such as CVD diamond are described.

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