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Development of Au-coated THGEM for Single Photon, Charge Particle, and Neutron Detection

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We report the successful development of Au-coated THGEM totally based on homemade industrial PCB technology in China. The THGEMs with various dimensions and substrates had been made and tested. The production capability covers $500 \times 1000 \text{ mm}^2$ sensitive area, hole diameter down to 200 μm , thickness down to 150 μm , rim from 10 to 120 μm , different substrates, and mass production requirement. Some effective techniques had been applied to improve the quality and performance of the THGEMs. The effective gain, gain stability and uniformity, energy resolution in various gas mixtures were studied. The test results of X-ray, VUV&UV light, cosmic ray, alpha particle show that this kind of THGEMs is promising.

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