

The R&D of the FPMTs for High Energy Physics Detectors

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The Fast PhotoMultiplier Tube (FPMT) is a weak light detection device with a Micro-Channel Plate (MCP) as its multiplication structure. Its ultra-fast time resolution, high detection efficiency, and excellent magnetic field resistance make it widely used in high-energy physics and nuclear medicine detection. Through optimized structural design, fabrication processes, and testing methods, the consortium has successfully developed high-performance FPMT devices. Currently, the successful development of single anode to 8x8 anode FPMTs has been achieved. This report will introduce the R&D process of domestically produced FPMTs, as well as the latest research achievements

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