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Reduction of multiple triggering in counting detectors

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In detectors utilising microchannel plates as an amplification stage, there is a degree of charge cloud spreading within the microchannel plate stack and also between the microchannel plate stack and the readout device. This charge cloud spreading results multiple triggering within event counting detectors, leading to degradation of spatial resolution and statistical noise on the resultant spectrum. We present a scheme for reducing such multiple triggering based on a first-past-the-post voting circuit interposed between the charge amplifier/discriminators and the counters in an event counting detector.

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