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High-rate particle identification of high-energy heavy ions using a tilted electrode gas ionization chamber

A high-rate particle identification device for high-energy heavy ions has been developed which utilizes a stacked configuration of grid-less parallel plate gas ionization chamber with thin anode-cathode gaps. The high-rate capability of this chamber was realized by adopting bipolar shaping of anode signals and by making the anode- cathode gaps thin. Z-resolutions of 0.2-0.3 were obtained for nuclear fragments of 40Ar at 95AMeV with an intensity as high as 106 cps.

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