

On the space resolution of the u-RWELL

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In MPGD detectors evaluation of the space resolution with the charge centroid (CC) method provides large uncertainty when the impinging particle is not perpendicular to the readout plane. An improvement of the position reconstruction, and thus of the space resolution, is represented by the uTPC algorithm. In this work we report the application of this algorithm to the u-Resistive WELL detector. Moreover a combination of the CC method with the uTPC algorithm is proposed, showing an almost uniform resolution over a wide angular range.

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