Statistics needed

One of the goals of testbeam is to study a uniformity of charge collection efficiency near the pad edges. Two typical configurations of pad borders are shown in the Figure 1 (viewing windows correspond to 7 x 7 mm^2 trigger counters, other words – to the area where we will have most of the tracks). The gap width between metalized pads is 0.2 mm. If we want to investigate the sensor response in details, we need high statistics of tracks even in the regions near the pad corners. Their relative area is $0.2^2/7^2 = 8.2 \cdot 10^{-4}$.

Usually we need ~ 3-10 K events to have a good quality spectrum. Then

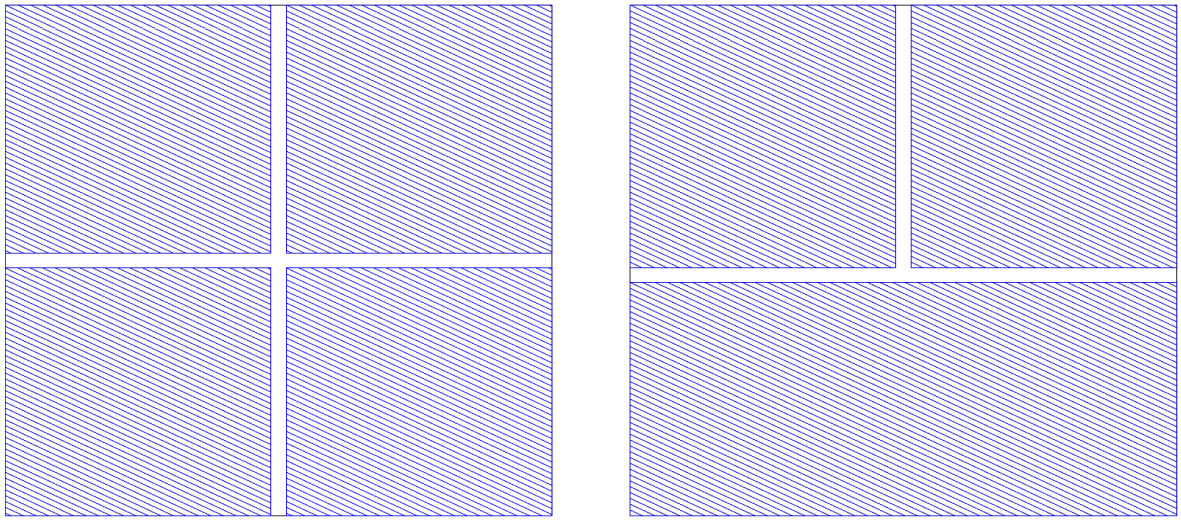

Figure 1.: Typical geometry of the pad borders.

the full statistics (assuming uniform track distribution) will be 300 K – 1 M events per each configuration.