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ELECTRONICS OF STRAW TRACKERS IN NA62, NA64 AND SPD EXPERIMENTS

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For the NA62, NA64 and the SPD experiments used charge particle trackers based on plastic drift tubes (straws). The main tracker parameters are spatial resolution, track efficiency, rate capability, low radiation length and reliability. Straw spatial resolution depends from precision of first electron drift time measurements from track to anode wire. RT-dependence is used for transfer time to coordinate and it is measured with low threshold of FE electronics (few fC) and TDC time resolution order 1 ns per channel. In the talk will be presented overview of NA62, NA64 and SPD straw-trackers, options of FE electronics and TDCs and discussed possible alternatives.

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