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Crosstalk and noise measurements of a charge-sensitive amplifier input path

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The Time-Projection Chamber is the main device for tracking and identification of charged particles in the MPD experiment at NICA collider. Multi-wire proportional chambers with cathode pad readout are chosen as a registration chambers. Padplane of the chamber fabricated as a multilayer PCB. Pads dimensions and quantity are determined by experiment requirements on space and momentum resolutions. By development of the padplane it is necessary to accept special efforts to minimize noise and crosstalk. It is also necessary to conform capacities of a pad and an input of amplifier. Big pad capacitance increase total noise of registration channel. Total input signal path of our design up to amplifier includes pad with trace, two connectors, flat kapton cable with corresponding capacitances. Crosstalk and noise measurements showed promising feasibility of the design.

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