

Design and construction of time delay autocorrelator

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Abstrak

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The design and construction of eight-bit time delay autocorrelator is discussed, suitable for use in photon correlation experiments. The sampling time of the correlator can be varied from 1 usec to 100/usec, divided into a number (typically 256) channels (time interval). The instrument records the number of pulses occurring in each sampling time and is stored in location memory in a RAM-BANK. The data is stored in binary form,

the data can be converted to analog form by digital to analog converter and is displayed on an oscilloscope.