

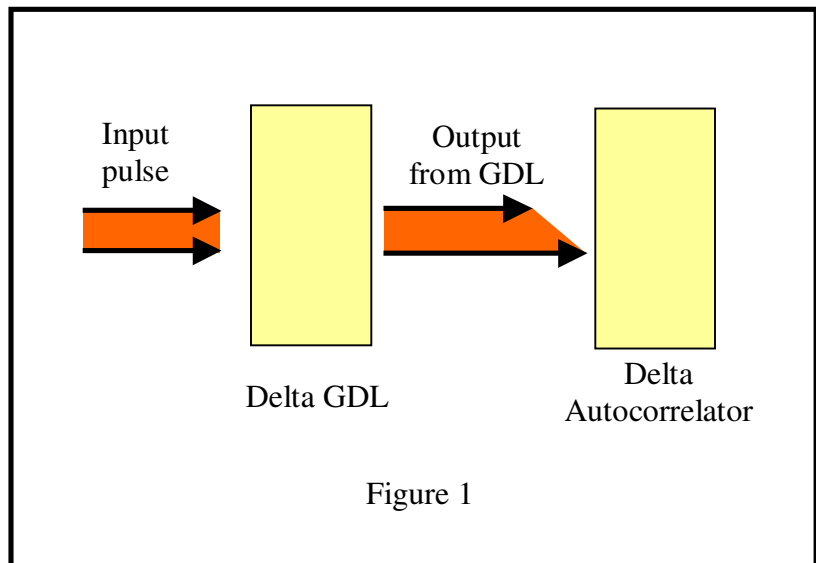
DELTA GRATING DELAY LINE

The delta grating delay lines (GDL-100 and GDL-300) are the options for the delta autocorrelator to measure the pulses 1-100ps and 1-300ps. The Delta GDL is a standalone device. Its size is compact (15x7.5x8 in cm for GDL-100). The Delta GDL can generate a time delay distribution along the laser beam cross section for the output pulses after going through it as illustrated by figure 1. The

time delay is variable by tuning the grating angle inside. For the GDL-300 ps model the maximum time delay is up to 500 ps at 1000 nm and total 1000 ps time range can be measured by the Delta autocorrelator at the wavelength. Also there is

no requirement for large input beam size.

As shown in figure 2, to measure a long (ps) pulse simply plug in the GDL and send the time delayed output pulse from the GDL to the Delta autocorrelator which will be operated same as if without the GDL. In this way, the Delta



autocorrelator can measure both ps and fs pulses with and without the GDL.

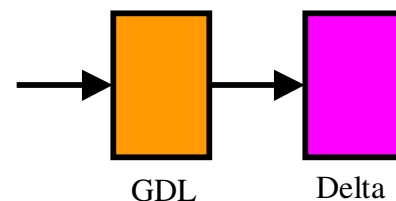


Figure 2