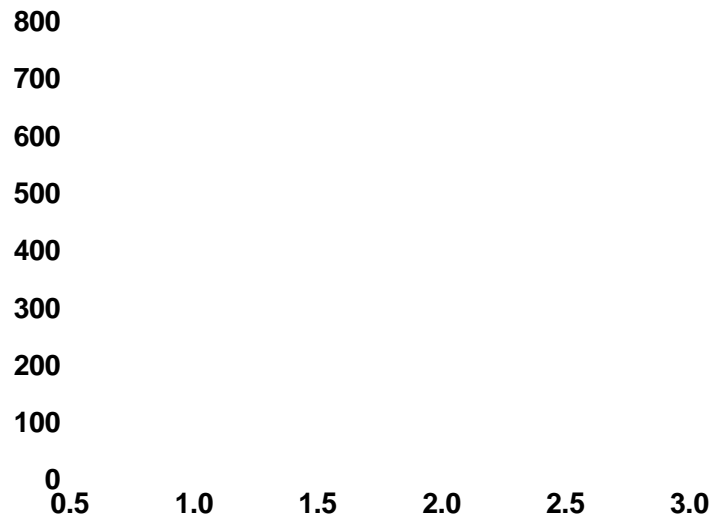


photon timing jitter. On the other hand, the primary DCR rises faster with the overvoltage (almost exponentially) due to the progressive enhancement of tunnel-assisted generation of carriers, as illustrated in Fig. 2.

Following such calculation, a new device with thicker multiplication layer has been designed and manufactured at Princeton Lightwave Inc. (PLI). The resulting device showed lower primary dark count rate due both to thicker InP layer



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