

## **Quantum Detectors Vs attenuators**

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The challenging new spectroscopy applications demanded by ultimate storage ring sources will require throughput beyond current limitations imposed by detector and readout systems. As a vendor of SDD readouts 30x faster, V2Fs 100x faster and 2D detectors 10x faster than standard offerings, Quantum Detectors has had attenuators in its sights for some time.

Data will be presented from Xspress 3, parts of the infrastructure of which have been successfully tested at 1 $\mu$ s time frames. Data will show the system in use at beamlines with continuous scan mapping systems, output rates of over 3 Mcps and EXAFS scans from femtograms of elements within highly fluorescent background samples at megahertz rates.

The future of such systems and other approaches will be discussed. We are working with leading labs to introduce further cutting edge technologies into the synchrotron market and are fully open to new collaborations.