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## **Photon technology Italy SRL - Superconducting Nanowire Single Photon Detectors: From Research to Industry**

*Monday 5 May 2025 16:45 (30 minutes)*

Superconducting nanowire single photon detectors (SNSPDs) are advanced devices renowned for their high system efficiency up to 98% at infrared wavelengths, low dark count rate less than 0.02 cps, and fast count rate, making them ideal for single photon detection applications such as quantum communication, photonic quantum computing, imaging, and LIDAR. Today, I will share the advanced SNSPD technologies developed by our group and discuss our efforts to transition these innovations from research to industry and scientific applications.

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