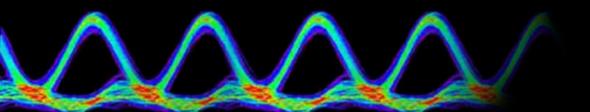


## ID Quantique and Photon Counters CERN SiPM event

#### Michael Desert / Alexis Rochas / Léonard Widmer ID Quantique



IDQ





## **Optical Instrumentations Products**



id100 / id101 / id 150 Single Photon Detectors at Visible wavelengths



id201 Single Photon Detectors at Near InfraRed wavelengths

id300 Short-Pulse Laser Source at 1310nm or 1550nm





id400 Single Photon Detectors dedicated at 1064nm



## Figures of merit



Material: Si

Quantum Efficiency: 35% @ 500 nm

Dark Count Rate: 2 Hz

After pulsing Probability 3%

*Timing jitter:* 40 ps



Material: InGaAsP/InP

Quantum Efficiency: Up to 30%

Dark Count Rate: 150 Hz at 7.5% SPDE

After pulsing Probability High

*Timing jitter: Typically 300 ps* 



Material: InGaAs/InP

*Quantum Efficiency: Up to 25%* 

Dark Count Rate: 10-5 per gate

After pulsing Probability High

*Timing jitter:* 300 ps



## ID Quantique interest in SiPM!

**ID Quantique** 

as a broad product range in photon counting but presently only single pixel.

is very capable in introducing new technology into the market

> as a broad experience in industrialization

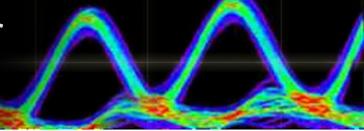
#### SiPM

- Large active area, compete with PMT
- All the advantage of Si based photon counter

## => SiPM and ID Quantique is a good fit



# Thank you very much for your attention!



# Visit us, we have a booth here

#### ID Quantique SA

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Feel free to ask any questions !

