

EPIC Online Technology Meeting on Single Photon Sources and Detectors

Webinar
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Mr. Benjamin Pages
Head of Space BU for QT



About AUREA Technology

- Independant French SME founded in 2010
- 100% EU27 company (France)
- Key building-blocks for Quantum Communication
- >300 customers worldwide
- Strong R&D (> 50% PhD in Quantum Tech.)
- SPIE Prism Awards 2020 & 2021 Finalist



EU27 map

Leading provider of Quantum Optical Instruments

Expertise

Key building-blocks for Quantum applications :
Photon generation, photon detection, fast timing electronics



Photon Generation
Entangled Photon Sources



Photon Detection
Photon Counters



Timing Electronics
Time Correlation

AUREA Technology structure

Structure

European Projects



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AUREA TECHNOLOGY SUPPORTS

EURO-QCI

Expertise



Photon Source

- Entangled Photon Source
- Photon Source Characterization and qualification
- Telecom wavelength

Quantum link Transmission

- Quantum Key Distribution optical transmission
- Quantum optical transmission Characterization and qualification
- Encoding & decoding building blocks

Single Photon Detector

- Geiger-mode Single Photon Counting Avalanche Photodiode (SPAD) at room temperature
- Improved InGaAs SPAD (GHz – High QE)
- Single Photon Counting Characterization and qualification
- Telecom Wavelength

EURO-QCI : Space Segment

Quantum Space Project

- High performance Entangled Photon Source Demonstration Model (SAGA)
- Space based Entangled Photon Source
- 100% EU Technology
- Quantum communication link at 1550 nm
- Objectives :
 - Generation rate > 1 GHz : **over achieved**
 - Transmission Key Rate > 10 bits/s : **over achieved**
 - LEO & GEO scenario

AUREA
TECHNOLOGY



What we are looking for

AUREA Technology is looking for partnerships and new customers interested in ground & space optical quantum technologies !

Core technologies :

Photon Sources, Photon Detectors, QKD building blocks

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THANK YOU !

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