Quantum Marketplace Webinar:

Quantum Sources

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Qubitekk is a U.S. developer and manufacturer of quantum entanglement devices for quantum communications, computing and sensing.

- Founded in 2013
- Located in San Diego, CA
- 20+ employees and growing quickly
- Profitable company with commercial products and customers
- Manufacturer of entangled photon source and detector technology
Entanglement is Foundational

- Quantum protected satellites
  (US Army)
- Drone-based Entanglement Distribution
  (US Air Force)
- Quantum Networking
  (Argonne National Lab)
- Quantum-Secured Electrical Grids
  (EPB – Chattanooga, TN)
Current State of our Commercial Source

- QES 2.4 general features:
  - Utilizes PPKTP SPDC
  - Polarization entangled
  - Output quantum state is fixed
  - Broadband (∼1-2nm)
  - Spectrally tunable (degenerate/non-degenerate)
  - Output intensity is adjustable
  - Price is in the $20K-$30K range

- Performance metrics fully characterized...
Coming Soon (~3yrs):

- Quantum state-tunable sources (for quantum sensing, etc.)
- Integrated channel correction (for quantum networking)
- Space-qualified sources (for quantum communications)
- Ultra narrow-band sources (at quantum memory wavelengths)
- Network reconfigurable sources (Netconf/YANG)

3-year reduced cost: $15K-$20K range
Best Ways to Contact Qubitekk

• Located at 1216 Liberty Way Suite A, Vista California, 92081
• Headquarter Phone: 760-599-5100