



Tuesday – December 29, 2009

QuintessenceLabs links with Royal Melbourne Institute of Technology to develop silicon photonic platform for quantum encryption and communications

QuintessenceLabs, the leader in quantum communications technology for networking, communications, national security and defence, has teamed up with researchers at RMIT to develop quantum-optic encryption in a silicon photonic chip.

Canberra, December 29, 2009: QuintessenceLabs, the leader in ultrasecure quantum communications, has teamed up with the Royal Melbourne Institute of Technology (RMIT) to miniaturize its second generation Quantum Key Distribution (QKD) technology into a silicon photonic microchip.

The project, supported by a linkage grant from the Australian Research Council, is an important element in the evolution of QuintessenceLabs' breakthrough second generation QKD technology. The technology, employing one-time pad encryption in real-time, offers high speed, untappable communications. Its integration onto a silicon photonic chip will considerably reduce the size and cost of the cryptosystem.

"This merger of technologies brings the most powerful form of data encryption, one which is ultra secure, down into a chip-scale device," said Vikram Sharma, founder and CEO of QuintessenceLabs. "The collaboration with the RMIT paves the way for deep quantum technology to become commercially available at a very competitive price point - making it accessible not only to enterprise customers, but also the retail market."

Commenting on the linkage project, Professor Xinghuo Yu, Director of RMIT's Platform Technologies Research Institute said, "This partnership is an excellent example of what the RMIT Platform Technologies Research Institute aims to achieve. Here we have RMIT academic researchers partnering with one of Australia's advanced ICT companies to develop a highly innovative but practical frontier technology platform which meets real world needs."

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About QuintessenceLabs

QuintessenceLabs is a leader in quantum communications technology for networking, communications, national security and defence. Our second generation, high performance communications technology makes use of breakthrough research in continuous variable, bright laser quantum cryptography. Unlike first generation systems, our technology incorporates off-the-shelf components to deliver lower cost, higher performance, highly robust and scalable quantum security products facilitating ultrasecure, untappable everlasting security.

For more information please contact QuintessenceLabs Founder and CEO, Vikram Sharma :-

Phone: +61 2 6125 9498

Email: press@quintessencelabs.com

Web: www.quintessencelabs.com

Office: QuintessenceLabs, Suite 23, Physics Building #38, Science Road,
Australian National University, Acton ACT 0200, Australia