

# THE PROVINCE

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## SWISS PHYSICIST COMING TO DEVELOP TECHNOLOGY

CALGARY (CP) -- An internationally-renowned quantum physicist has joined forces with an Alberta university in the hopes of making Internet hacking a thing of the past.

Wolfgang Tittel, recruited from the University of Geneva by the University of Calgary's Institute for Quantum Information Science, will work with researchers to develop secure quantum encryption technology.

He said quantum encryption technology holds great promise for information security because the security codes are carried in bundles with a particular configuration.

If these bundles are disrupted during transmission, they re-configure and the information immediately scrambles, he said.

This differs from current encryption technologies, which are only capable of scrambling information for short periods of time.

The technology could someday provide uncompromised online protection for everything from Internet banking to medical records. But Barry Sanders, director of the Institute for Quantum Information Science, said it will be at least a decade before the technology is used..