

Re: Quantum cryptography tackles video

Source: <http://sci.tech--archive.net/Archive/sci.physics/2005-05/msg01582.html>

- *From:* Jan Panteltje <pNaonStpealmtje@xxxxxxxxxx>
 - *Date:* Wed, 11 May 2005 20:48:12 GMT
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On a sunny day (Wed, 11 May 2005 12:31:25 -0400) it happened Baugh <baconbaugh@xxxxxxxxxxxxx> wrote in <[Grqge.3571\\$sV7.2740@xxxxxxxxxx](mailto:Grqge.3571$sV7.2740@xxxxxxxxxx)>:

>Jan Panteltje wrote:

>> On a sunny day (Wed, 11 May 2005 03:37:45 GMT) it happened Sam Wormley

>> <swormley1@xxxxxxxxxx> wrote in <[d6fge.73586\\$C24.66093@attbi_s72](mailto:d6fge.73586$C24.66093@attbi_s72)>:

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>>>Quantum cryptography tackles video

>>> <http://physicsweb.org/articles/news/9/5/5/1>

>>>

>>>10 May 2005

>>>

>>>Physicists at Toshiba have used quantum cryptography to transmit voice

>>

>>

>> Yes, it was discussed in sci.crypt weeks ago, and it is useless, as it

>> requires a glassfiber between receiver and transmitter, and STILL a man in

>> the middle can fake it.

>> So you need a reel of fiber, and a shovel, and a permit to open up every

>> street etc...

>>

>

>You are mistaken. The point of quantum crypt. is that should the man

>in the middle read the signal he will affect it. You can't anonymously

>tap a quantum signal.

Wrong, the way it works is that they generate a key, use OTP (one time pad), and xor the data with it.

The key is send via the fiber, as polarized photon pairs, so if A measures one polarization, B must have the other.

HOWEVER one can buy these units commercially, cut the fiber, decode, fix the data, then re-encode (generate a new pair of photons).

The ONLY thing protecting you against that attack is a strict protocol, NOT the quantum stuff.

Look it up, sci.crypt, about 2 weeks ago.

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 - ◇ From: Jan Panteltje
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