

THE Weak-link in Quantum Communications

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The newest thing in computer science is quantum computing and quantum communications. We *envision* FTL, faster than light, communications *with infinite bandwidth*. We've proven the first, but in NO WAY SHAPE OR FORM does that imply the latter. Try the following search:

<https://arxiv.org/search/advanced>

copy and paste the following text into the search field:
noiseless qbit systems

select Abstract, then Search. Remember this is an "AND" search which means the server will try to find all three terms in ANY abstract, in any order without contiguity. Nothing, right? Try again without noiseless, 11 results. You might think: "it's too early to find any reference".

WRONG:

<https://arxiv.org/pdf/1804.02594.pdf>

Skim the abstract. EVERY communications engineer KNOWS there is NO SUCH THING AS NOISELESS COMMUNICATIONS. Which means that even if we have *proven* FTL communications via quantum networks, there will ALWAYS BE SOURCES OF NOISE within a network, always.

Current limitations of our internet-network relate to bandwidth and fiber-optics. Even these "perfect" systems have noise. Every RF engineer knows about noise. Noise is a fact of life; it's an inevitable fact of physical reality. Sure, someday we may develop practically noiseless quantum computers, but notice the word "practically" and remember that PRECISION ALWAYS COSTS MORE MONEY. So you want a "perfect" quantum communication system? Get ready to spend infinite money.