



Quantum Whistleblowing

Description

Whistleblowing can be a useful tool in addressing misconduct at all levels of society. This includes, but is not limited to, e.g. a sexual, power-dynamic, unsafe working environment or other types of internal corporate misconduct. Moreover, it can include corporate misconduct of an external nature, like violations of anti-trust laws or gross misconduct of non-governmental organisations (NGOs), in healthcare systems or even of public officials.

However, whistleblowing can also be dangerous for those committing to it, as repercussions on many different levels loom. Large problems can therefore remain unnoticed, as potential repercussions and ramifications prevent parties from speaking out.

A truly anonymous platform greatly helps in this regard. When someone can announce or speak out in a fashion so that there is no option for their message to be traced back to them, they are safe in their actions and won't be prevented from addressing and bare open these problems. Quantum technologies can offer great opportunities for such truly anonymous transmissions. Various levels of anonymous whistleblowing, using various stages of a quantum network, are envisioned. These are addressed separately in the 'feasibility' section.

Quantum advantage

Information-theoretic security without an honest majority" will give information-theoretic (true) anonymity, but is only suited for small networks and messages, as the scaling is bad. "Quantum Anonymous Transmissions" mitigates some of these problems and therefore is suited for medium-sized networks. "Secure anonymous conferencing in quantum networks" is much harder to implement but offers great versatility on top of all the benefits of the previous options.