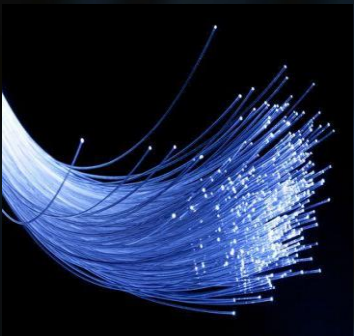


A Quantum Trust Generator

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Trust



The fundamental glue of human relations.

Trust

It underlies the smooth function of society

The creation of prosperity.

Central to transactions at the interpersonal level, economy and politics.

Enables cooperation, vulnerability, and community building.

Ensuring Trust

Making procedures transparent.

Vote counts, audits, identity verification, financial transactions.

A Problem

Often efficient outcomes depend on private information staying private.

Examples: Messages.

Preference compatibility.

Multiparty negotiations.

Auctions.

Quantum Erasure

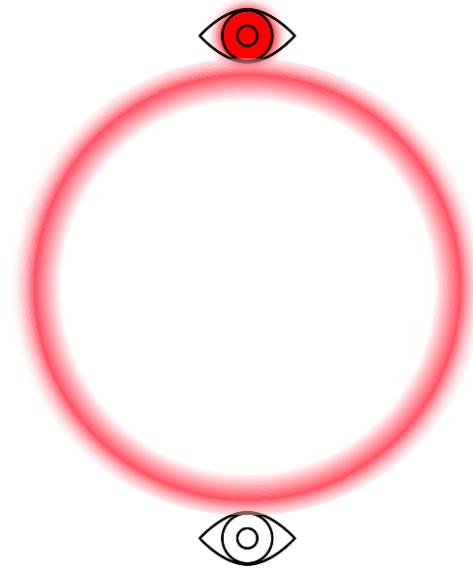
It relies on a deep property of quantum systems.

Measuring a quantum systems (photons, electrons) *collapses* its state into one of its many possibilities.

Collapse of the Wave Function

Light as both photon and wave

Bob



Alice

Discovering Compatible Preferences

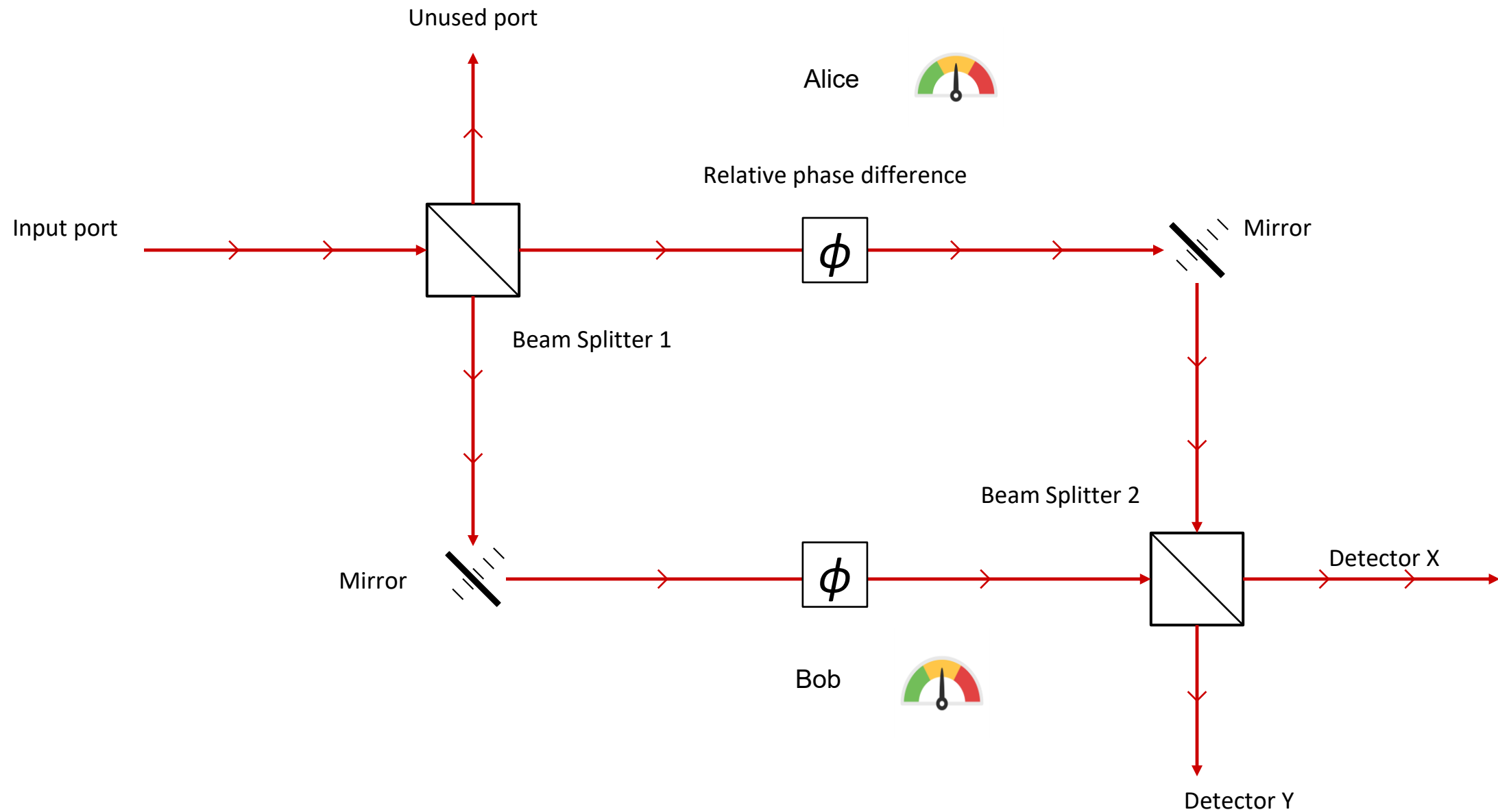
Negotiations – do we agree without telling?

Dividing assets.

Voting preferences.

Organizational roles in an organization.

Quantum compatibility



Coda

Many more quantum trust mechanisms (paper coming).

Quantum technologies can deliver:

Trust generation that cannot be violated by any means.

Ensured by the laws of physics!

Gracias!

Preguntas y comentarios:

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