

**Alice**

Rest of the raw data

$\mathbf{x}$

Normalization

$\mathbf{x}'$

Data mapping

$\mathbf{v}$

Decoding

$\mathbf{b}'$

**Bob**

Rest of the raw data

$\mathbf{y}$

Normalization

$\mathbf{y}'$

Mapping function calculation

$\mathbf{b}$

QRNG

$\mathbf{b}$

$\mathbf{M}(\mathbf{y}', \mathbf{u})$

$\mathbf{s}$