▲ ◀ ▶ **Quantum Computing & Cryptography**

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Quantum Key Distribution

Alice's bit	0	1	1	0	1	0	0	1
Alice's basis	+	+	X	+	X	X	X	+
Alice's polarization	↑	→	↖	↑	↖	↗	↗	→
Bob's basis	+	X	X	X	+	X	+	+
Bob's measurement	↑	↗	↖	↗	→	↗	→	→
Public discussion								
Shared Secret key	0		1			0		1

Alice's bits: secret
Alice's basis: initially secret, public later
Alice's polarization: secret
Bob's basis: public
Bob's measurement: secret

A Survey of the Prominent Quantum Key Distribution Protocols, Mart Haitjema. Figure 3.