

Alice

(4) Alice $\tilde{\mathbf{b}}$

$\tilde{\mathbf{C}} = [1111011]$

LDPC BF/BP
(7) Decoder

$\hat{\mathbf{C}} = [1111010]$

(8) Alice $\hat{\mathbf{b}}$

$\tilde{\mathbf{b}} = [1111011]$

$\mathbf{s} = [100]$

(3) Equivalent
quant. channel

(6) Classical
channel

Bob

$\mathbf{C} = [1111010]$

(1) QRNG

$\mathbf{b} = [1111010]$

(2) Bob \mathbf{b}

$\mathbf{s} = [100]$

(5) Syndrome side
information \mathbf{s}

