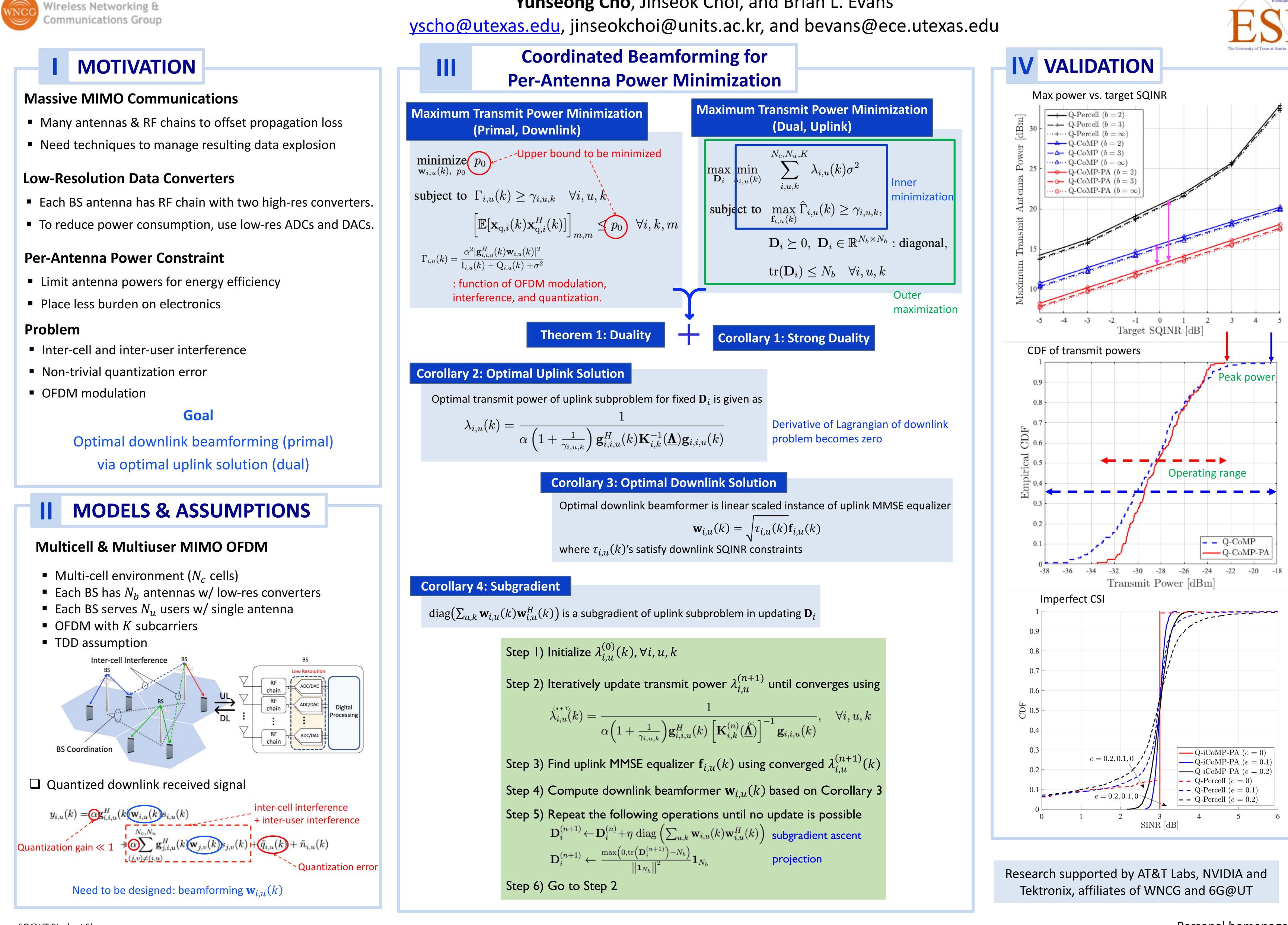
The University of Texas at Austin Electrical and Computer Engineering

Cockrell School of Engineering



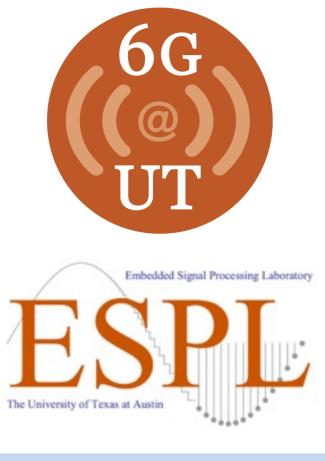
Coordinated Per-Antenna Power Minimization for Multicell Massive MIMO Systems with Low-Resolution Data Converters

Yunseong Cho, Jinseok Choi, and Brian L. Evans

$$\mathbf{g}_{i,u}(k) = \frac{1}{\alpha \left(1 + \frac{1}{\gamma_{i,u,k}}\right) \mathbf{g}_{i,i,u}^{H}(k) \mathbf{K}_{i,k}^{-1}(\underline{\mathbf{\Lambda}}) \mathbf{g}_{i,i,u}(k)}$$

$$f_{i,u}(k) = \sqrt{\tau_{i,u}(k)} \mathbf{f}_{i,u}(k)$$

$$\lambda_{i,u}^{(n+1)}(k) = \frac{1}{\alpha \left(1 + \frac{1}{\gamma_{i,u,k}}\right) \mathbf{g}_{i,i,u}^{H}(k) \left[\mathbf{K}_{i,k}^{(n)}(\underline{\Lambda})\right]^{-1} \mathbf{g}_{i,i,u}(k)}, \quad \forall i, u, k$$





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