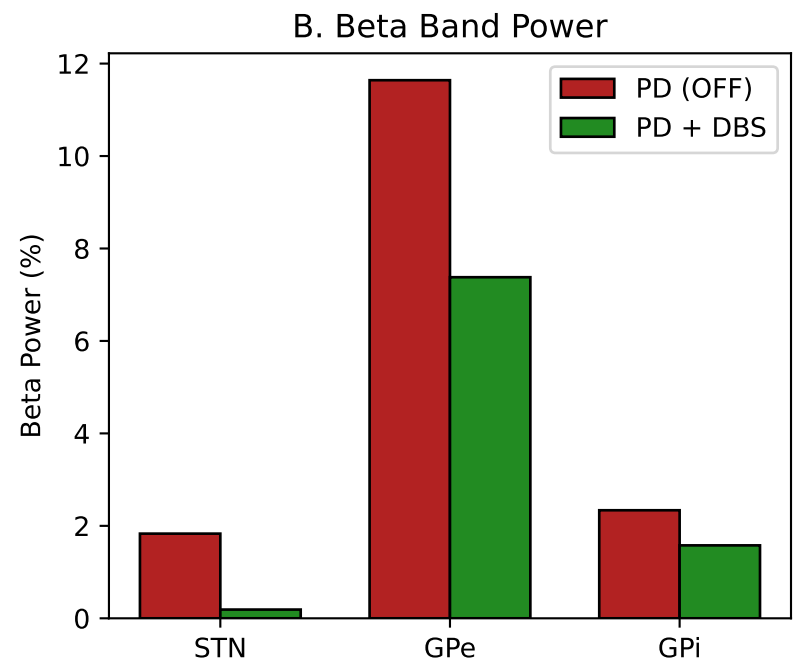
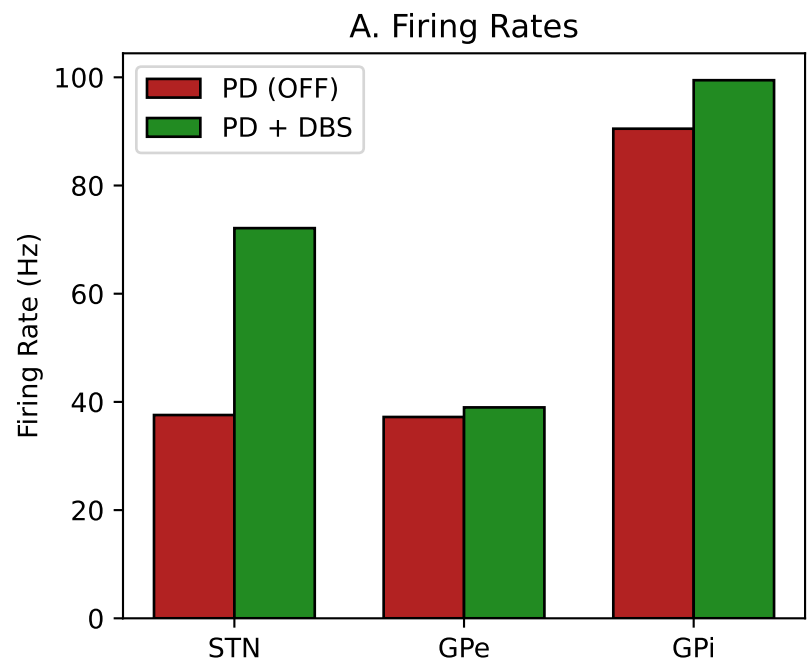
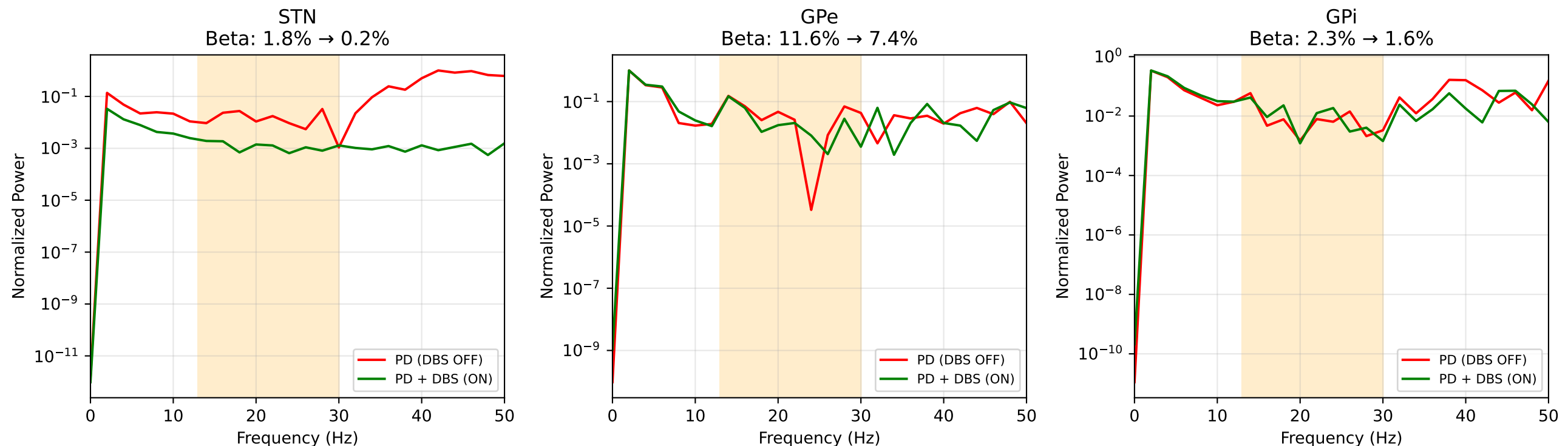


Figure 7: DBS Suppresses Beta Oscillations in Parkinsonian Network



DBS MECHANISM (Simplified Model)

DBS Parameters:

- Target: STN
- Frequency: 130.0 Hz
- Effect: Disrupts STN-GPe loop

Key Results:

- GPe Beta: 11.6% → 7.4%
- Beta suppression: 37%

Interpretation:

DBS disrupts pathological synchrony in the STN-GPe feedback loop, reducing beta oscillations.