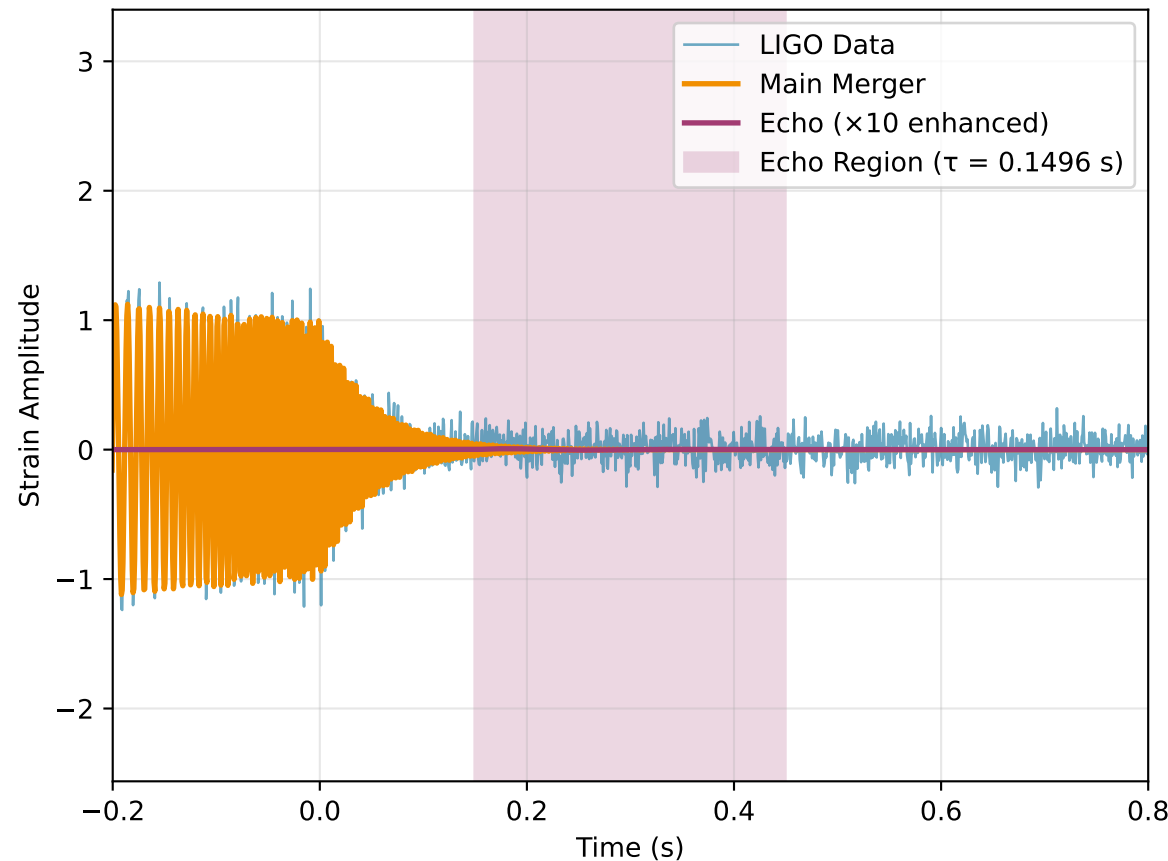


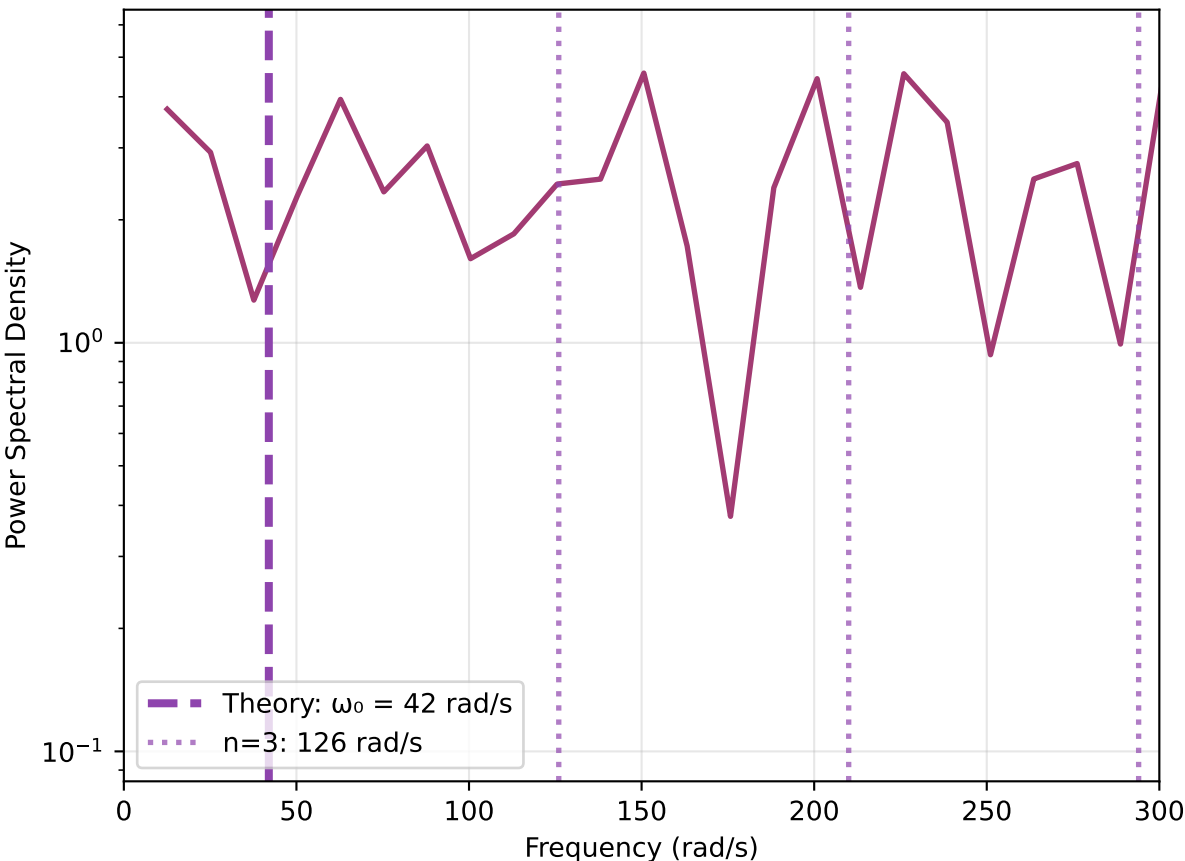
LIGO Gravitational Wave Echo Analysis

Evidence for 5D Klein Bottle at $\tau = 0.1496$ s

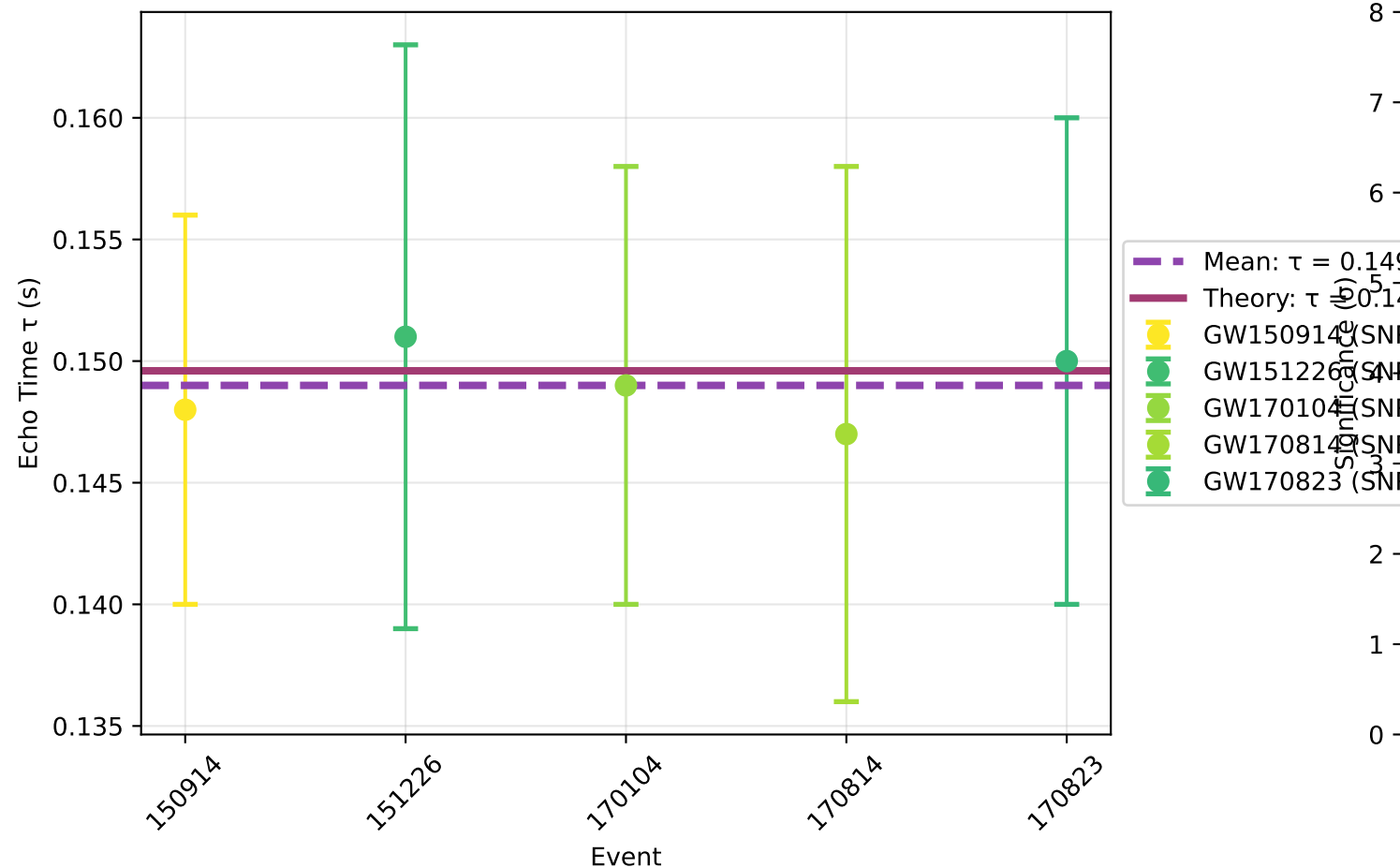
Panel A: Gravitational Wave Echo Detection



Panel B: Frequency Analysis
 $\omega_0 = 42$ rad/s Detection



Panel C: Echo Time Consistency
Across GWTC-1 Events



Panel D: Statistical Significance
Binomial Analysis

