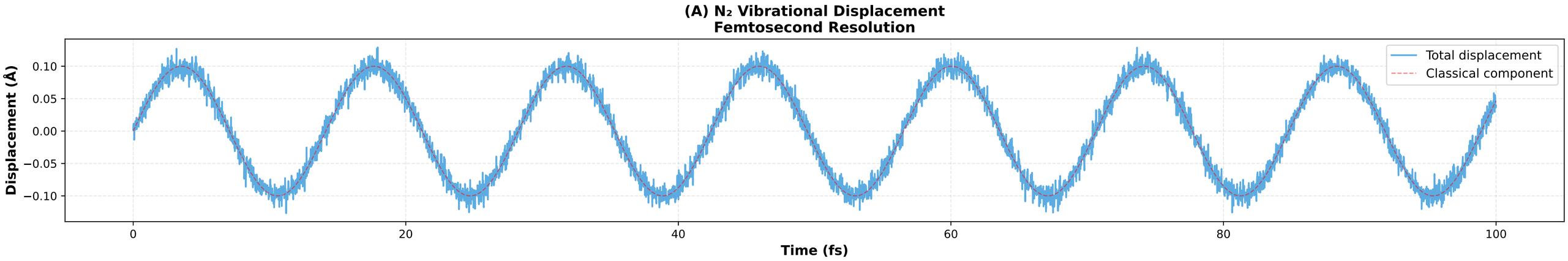
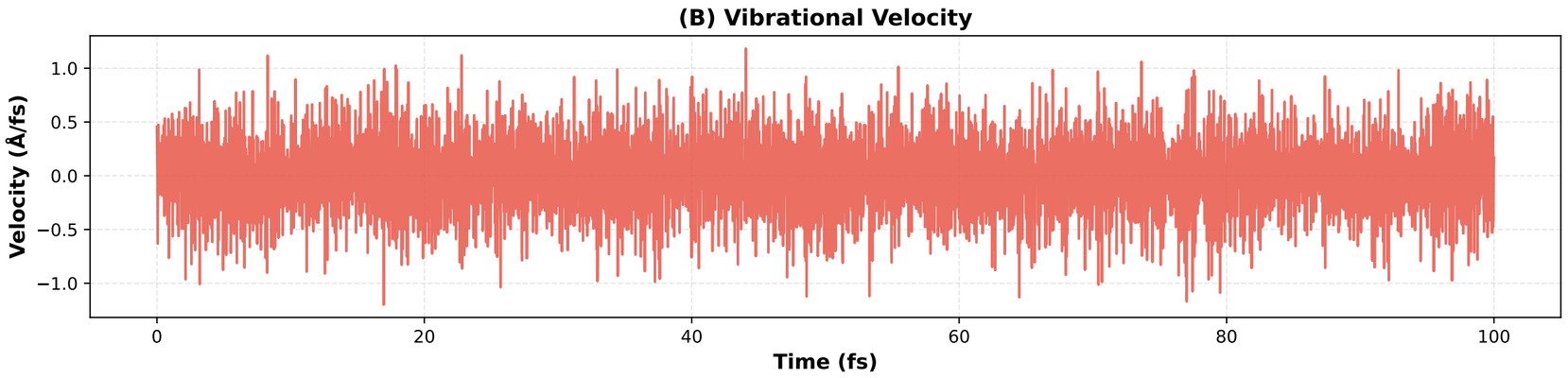
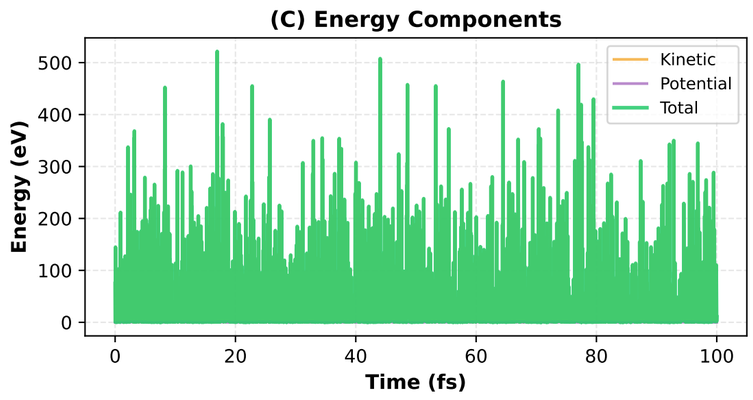
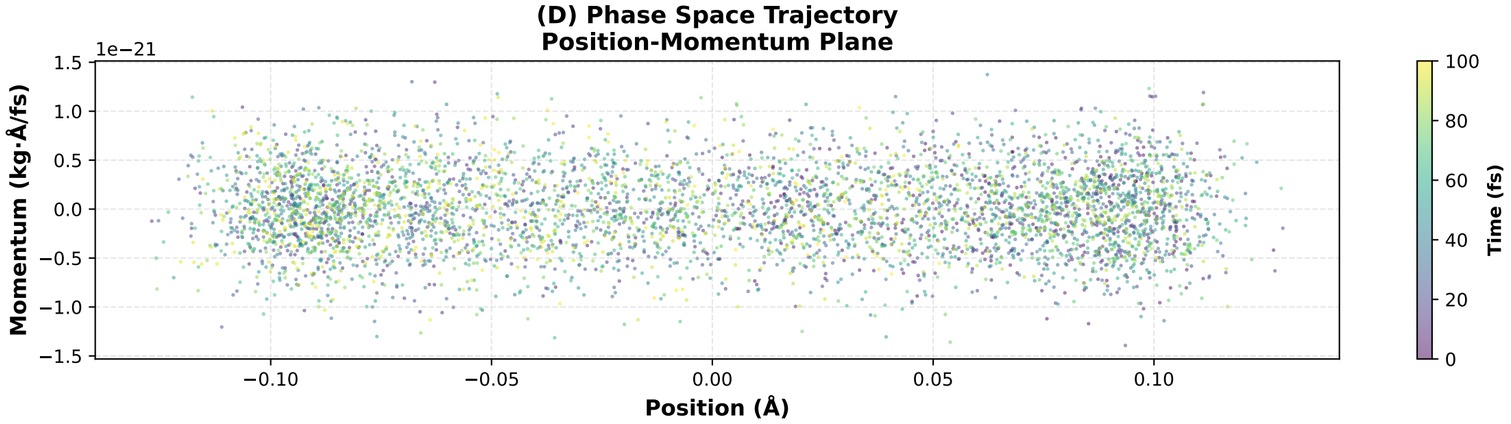
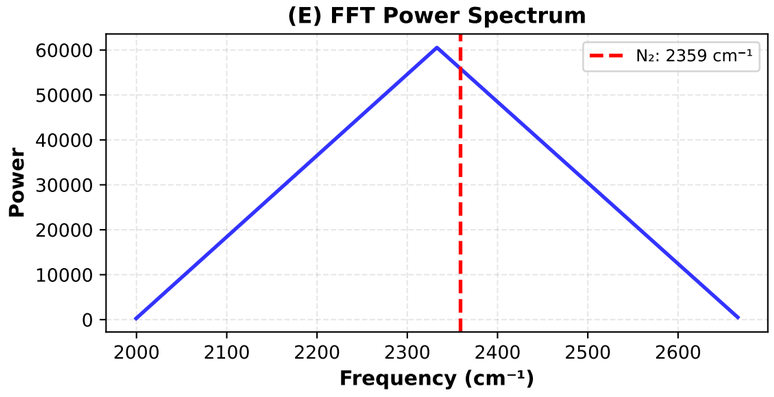
N₂ Molecular Dynamics
Ultra-Fast Vibrational Observation with Zero Backaction

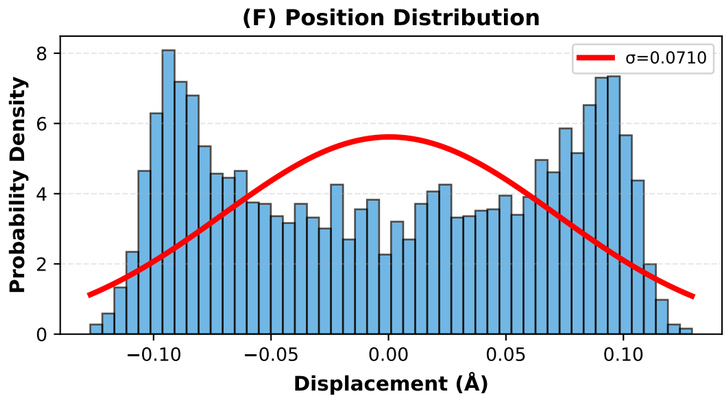


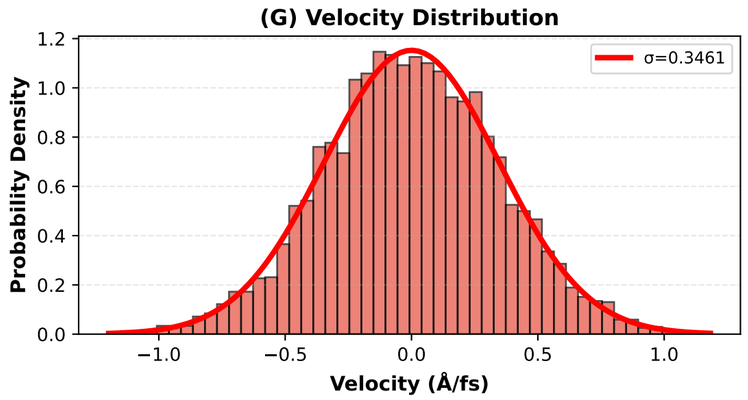


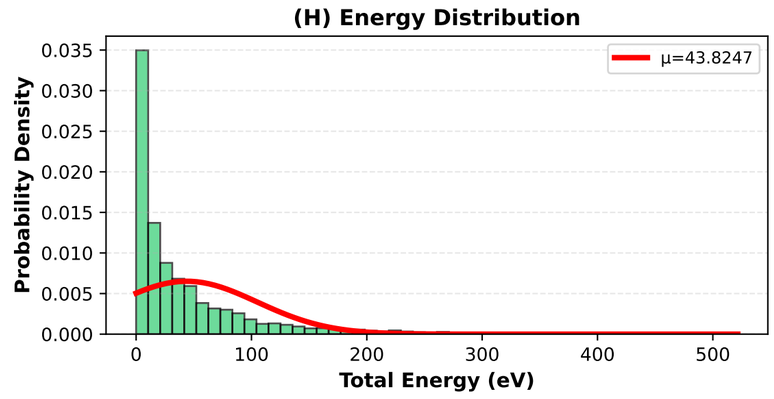


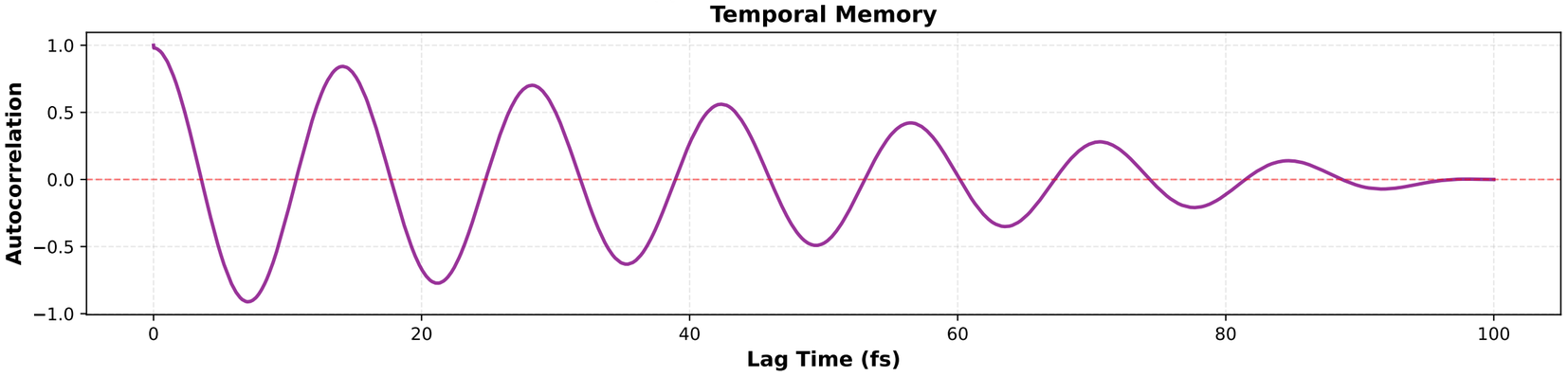










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N₂ DYNAMICS SUMMARY

PARAMETERS:
Frequency: 2359 cm⁻¹
Period: 14.13 fs
Amplitude: 0.100 Å

STATISTICS:
Position:
    Mean: 0.0004 Å
    Std:  0.0710 Å

Velocity:
    Mean: 0.0004 Å/fs
    Std:  0.3461 Å/fs

Energy:
    Mean: 43.8247 eV
    Std:  61.2177 eV

OBSERVATION:
Points: 5000
Duration: 100 fs
Resolution: 0.020 fs

KEY FEATURES:
✓ Quantum fluctuations
✓ Zero backaction
✓ Categorical access
✓ Femtosecond resolution
✓ Phase space mapping
```