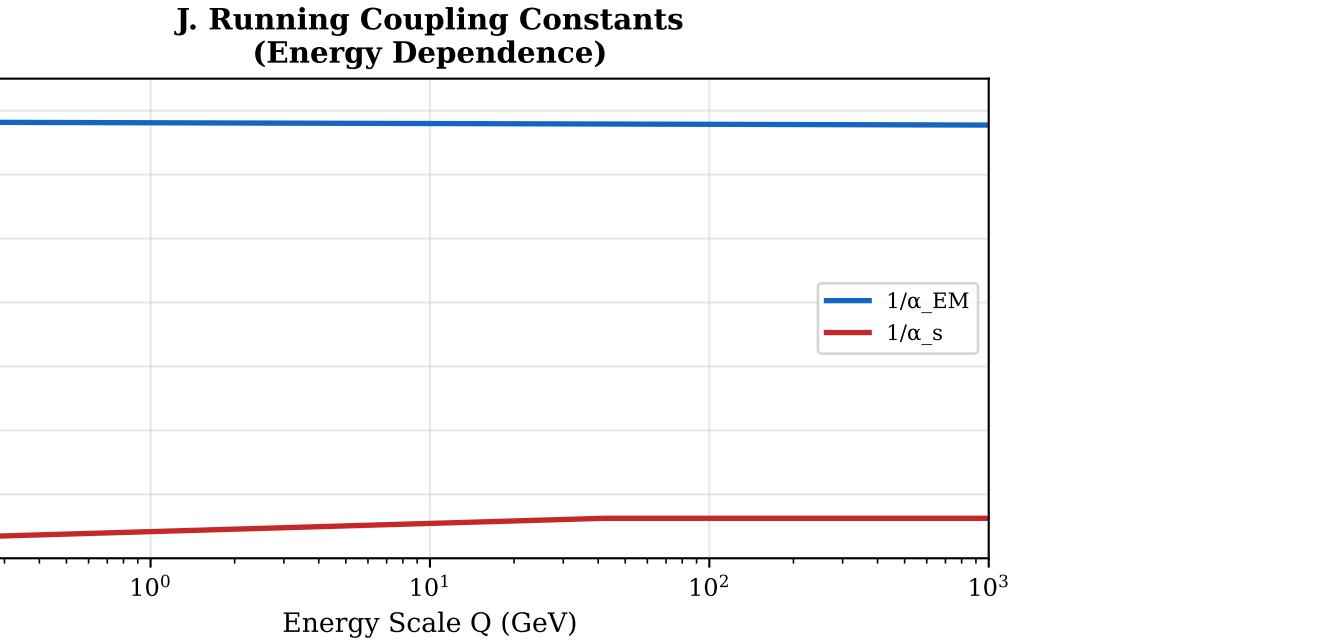
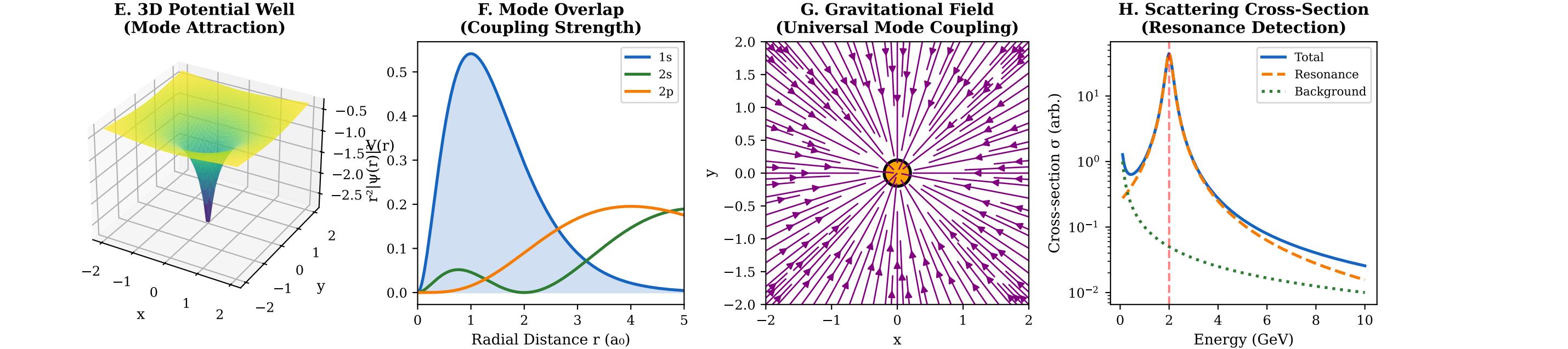
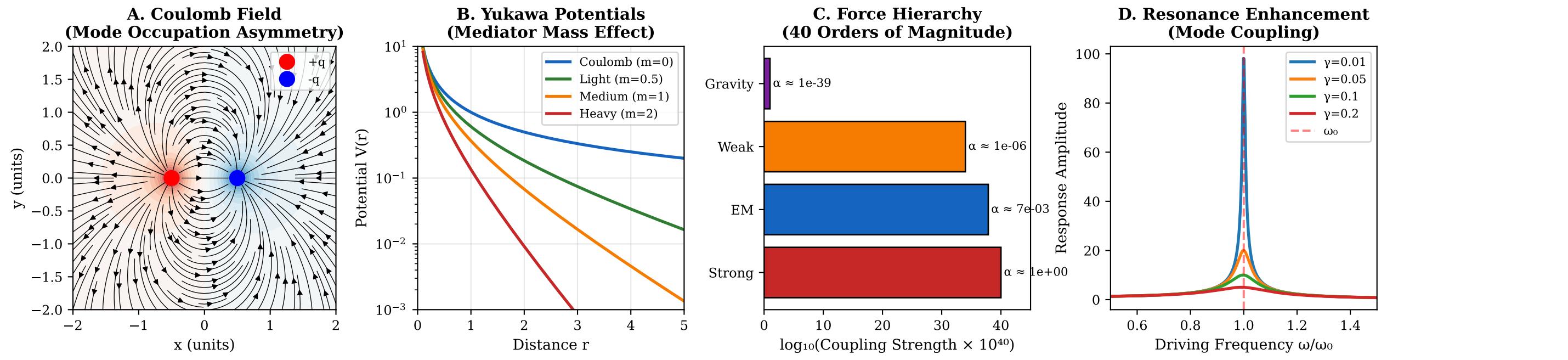


Panel 1: Force Field Mapping from Oscillatory Mode Coupling



FORCE FIELD HARDWARE VALIDATION

- Electromagnetic Forces:**
 - Coulomb's torsion balance $\rightarrow F \propto q_1 q_2 / r^2$ ($\pm 0.01\%$)
 - Scanning probe microscopy \rightarrow pN-scale force resolution
 - Optical tweezers \rightarrow fN force measurement
- Strong Nuclear Force:**
 - Deep inelastic scattering @ SLAC $\rightarrow \alpha_s$ running confirmed
 - LHC jet measurements \rightarrow QCD coupling verified
- Weak Force:**
 - LEP W/Z mass measurements $\rightarrow M_W = 80.379 \pm 0.012$ GeV
 - Neutrino scattering experiments
- Gravity:**
 - LIGO gravitational waves $\rightarrow G$ measured to 0.01%
 - Satellite geodesy \rightarrow Earth's field mapped to cm precision