/opt/homebrew/bin/python3 /Users/douglas/Documents/GitHub/universal/0pge/pge-eigen.py

/Users/douglas/Documents/GitHub/universal/0pge/pge-eigen.py:80: *RuntimeWarning: Maximum number of iterations has been exceeded.*

*result = minimize(objective, initial\_params, method='Nelder-Mead',*

**Optimized Potential Parameters:**

**a = 1.897887437426668e+23**

**b = -1.907029261013771**

**c = 8.464141913475423**

Computed Eigenvalues (in Joules):

Eigenvalue 1: 8.464e+00 J (Prime: 2)

Eigenvalue 2: 8.654e+00 J (Prime: 3)

Eigenvalue 3: 9.225e+00 J (Prime: 5)

Eigenvalue 4: 1.018e+01 J (Prime: 7)

Eigenvalue 5: 1.151e+01 J (Prime: 11)

Eigenvalue 6: 1.322e+01 J (Prime: 13)

Eigenvalue 7: 1.531e+01 J (Prime: 17)

Eigenvalue 8: 1.778e+01 J (Prime: 19)

Eigenvalue 9: 2.063e+01 J (Prime: 23)

Eigenvalue 10: 2.387e+01 J (Prime: 29)

Eigenvalue 11: 2.748e+01 J (Prime: 31)

**Eigenvalue 12: 3.147e+01 J (Prime: 37)**

Eigenvalue 13: 3.585e+01 J (Prime: 41)

Eigenvalue 14: 4.060e+01 J (Prime: 43)

Eigenvalue 15: 4.574e+01 J (Prime: 47)

Eigenvalue 16: 5.125e+01 J (Prime: 53)

Eigenvalue 17: 5.715e+01 J (Prime: 59)

Eigenvalue 18: 6.342e+01 J (Prime: 61)

Eigenvalue 19: 7.008e+01 J (Prime: 67)

Eigenvalue 20: 7.712e+01 J (Prime: 71)

*2024-10-05 14:28:44.652 Python[80732:465326] +[IMKClient subclass]: chose IMKClient\_Legacy*

*2024-10-05 14:28:44.652 Python[80732:465326] +[IMKInputSession subclass]: chose IMKInputSession\_Legacy*