Eigenvalues ordered from smallest to largest

 10^{-1}

 10^{-4}

 10^{-7}

 10^{-10}

 10^{-13}

 10^{-16}

 10^{0}

 10^{-3}

 10^{-6}

 10^{-9}

 10^{-12}

 10^{-15} -

Error in eigenvalues w.r.t. Arpack's solution with error tolerance of 1e-14