

Cubic anharmonic oscillator, $H = p^2/2 + x^2/2 + \sqrt{2\lambda} x^3$

Coefficients in the expansion of the ground-state energy $E = \sum_{k=0}^{\infty} E_k \lambda^k$

- $E_0 = 1/2$
- $E_1 = -11/4$
- $E_2 = -465/8$
- $E_3 = -39709/16$
- $E_4 = -19250805/128$
- $E_5 = -2944491879/256$
- $E_6 = -1075012067865/1024$
- $E_7 = -226901900422293/2048$
- $E_8 = -434138993449290765/32768$
- $E_9 = -116006399541307972315/65536$
- $E_{10} = -68536393613219226268635/262144$
- $E_{11} = -22193677492700992811133027/524288$
- $E_{12} = -31293558328881316324968722625/4194304$
- $E_{13} = -11936329585957786678766275242675/8388608$
- $E_{14} = -9801343624623908833992451465423665/33554432$
- $E_{15} = -4311400547394068833130774763464887413/67108864$
- $E_{16} = -32375350051227450299427072705750570051645/2147483648$
- $E_{17} = -16151556141191965784749919915996694628508355/4294967296$
- $E_{18} = -17072967787292495245827587808160665903764277255/17179869184$
- $E_{19} = -9530591164299011994820679249107163318928650498871/34359738368$
- $E_{20} = -22415144197847682690523800498647602423075460920964955/274877906944$
-
- $E_{300} = -150684228304676256420292115476910285672288545967201756339361339633 \backslash$
 $93600065917930015949239150071793488821785145019287852115113405112092222 \backslash$
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