

Supplemental Data Set S3

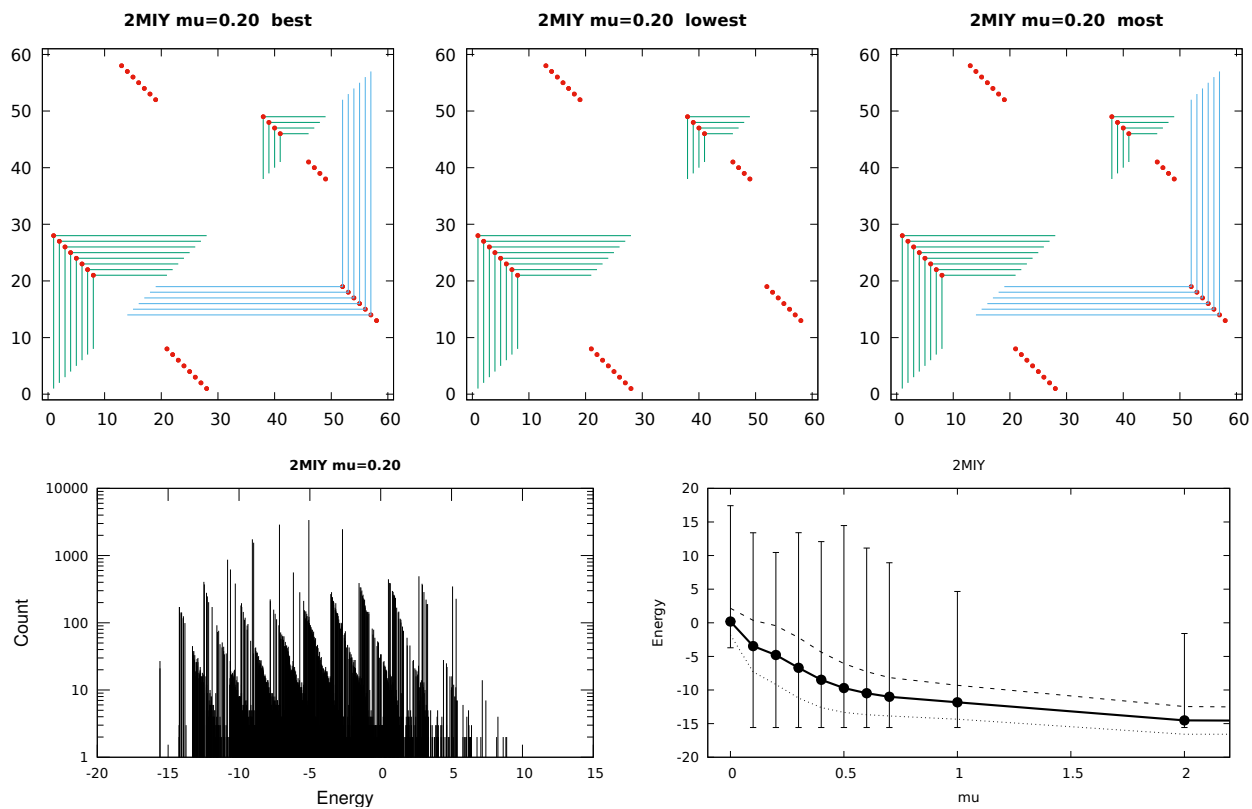
Fold prediction data for all 27 target sequences in the Rzs test set with H-type pseudoknot interactions listed in Table 5. All numerical values and three structures of relevance are included along with energy spectrum and ensemble energy profile as a function of the chemical potential.

2MIY

GCUUGGUGCU UAGCUUCUUU CACCAAGCAU AUUACACGCG GAUAACCGCC AAAGGAGAA

mu: 0.2 mean energy: -4.79022 variance: 19.0563

lowest: -15.575335 most probable(5.630%): -5.070835 best match: -5.070835

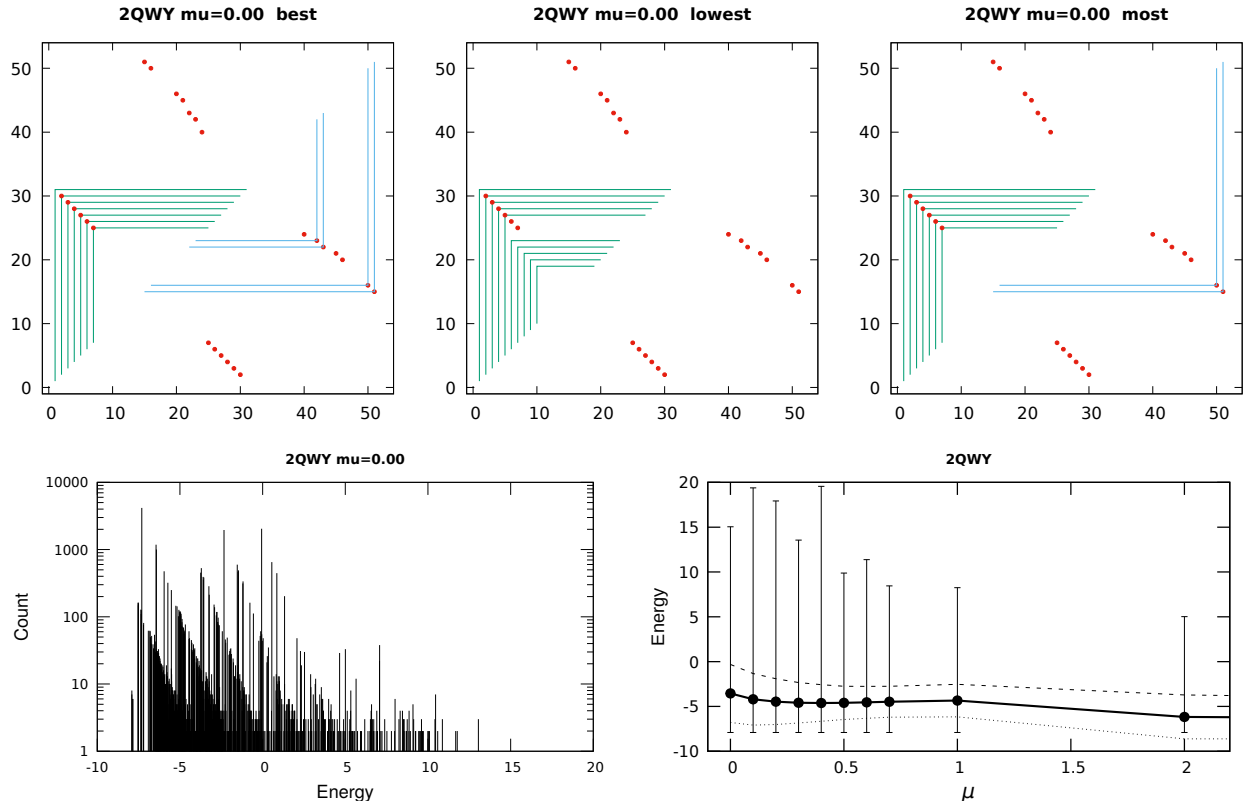


2QWY

GCGCGGCGAU UUAACCGUAU UGCAGUCGCG UGAUAAAUGU AGCUAAAAAG GA

mu: 0 mean energy: -3.55123 variance: 10.4625

lowest: -7.907584 most probable(13.903%): -7.306544 best match: 4.550666

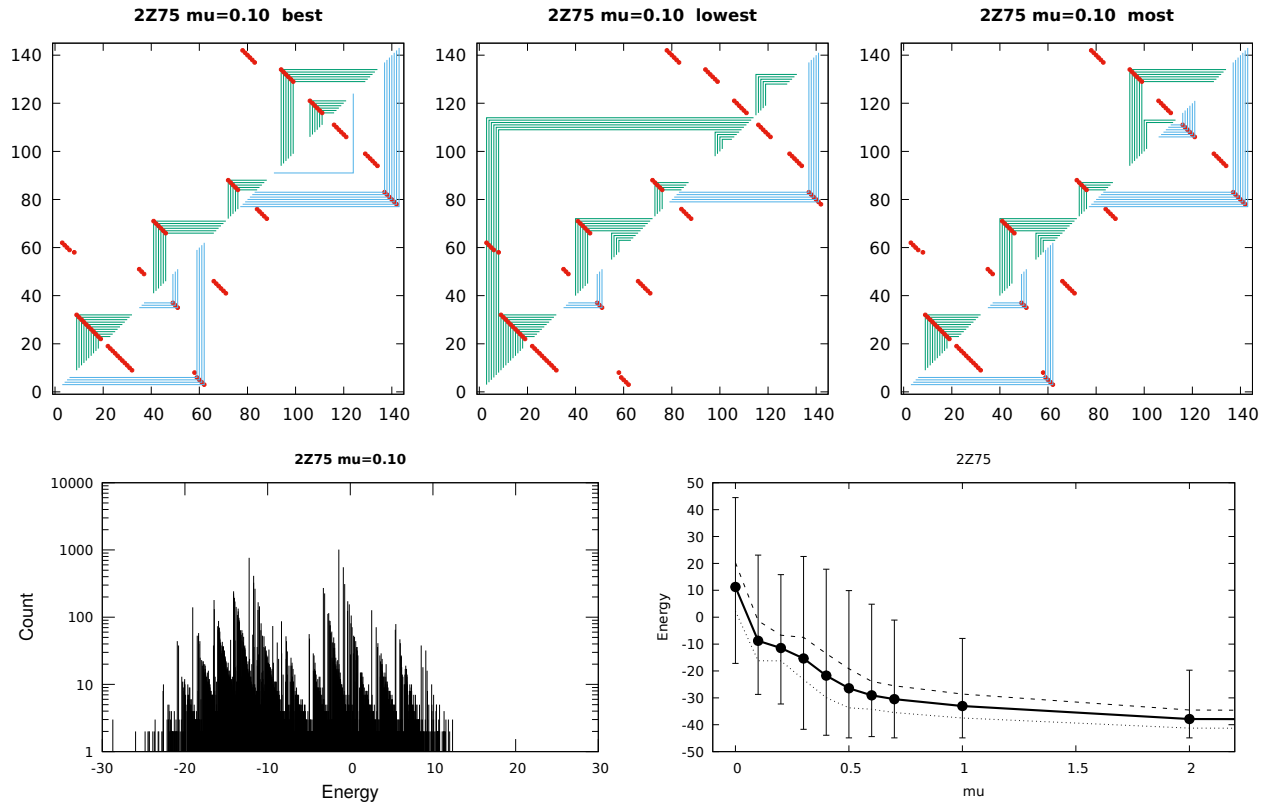


2Z75

XGCGCCUGGA CUUAAAGCCA UGGCUUUAAG UUGACGAGGG CAGGGUUAUC GAGACAUCGG
 CGGGUGCCCU GCGGUCUUC UGCGACCGUU AGAGGACUGG UAAAACCACA GGCGACUGUG
 GCAUAGAGCA GUCCGGGCAG GAA

mu: 0.1 mean energy: -8.76815 variance: 55.1976

lowest: -28.721493 most probable(1.690%): -1.386000 best match: -14.260556

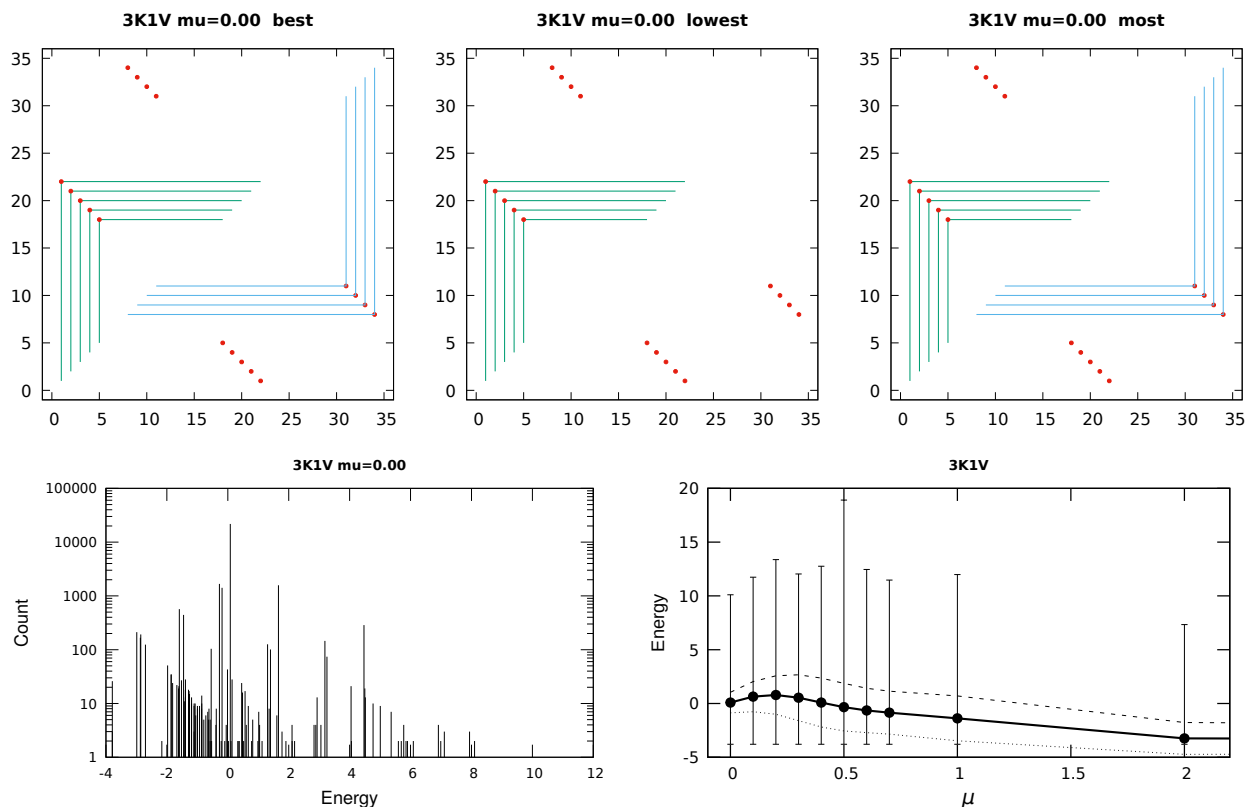


3K1V

AGAGGUUCUA GCACAUCCCU CUAUAAAAAA CUAG

mu: 0 mean energy: 0.0840813 variance: 0.912249

lowest: -3.791334 most probable(72.547%): 0.082787 best match: 0.082787

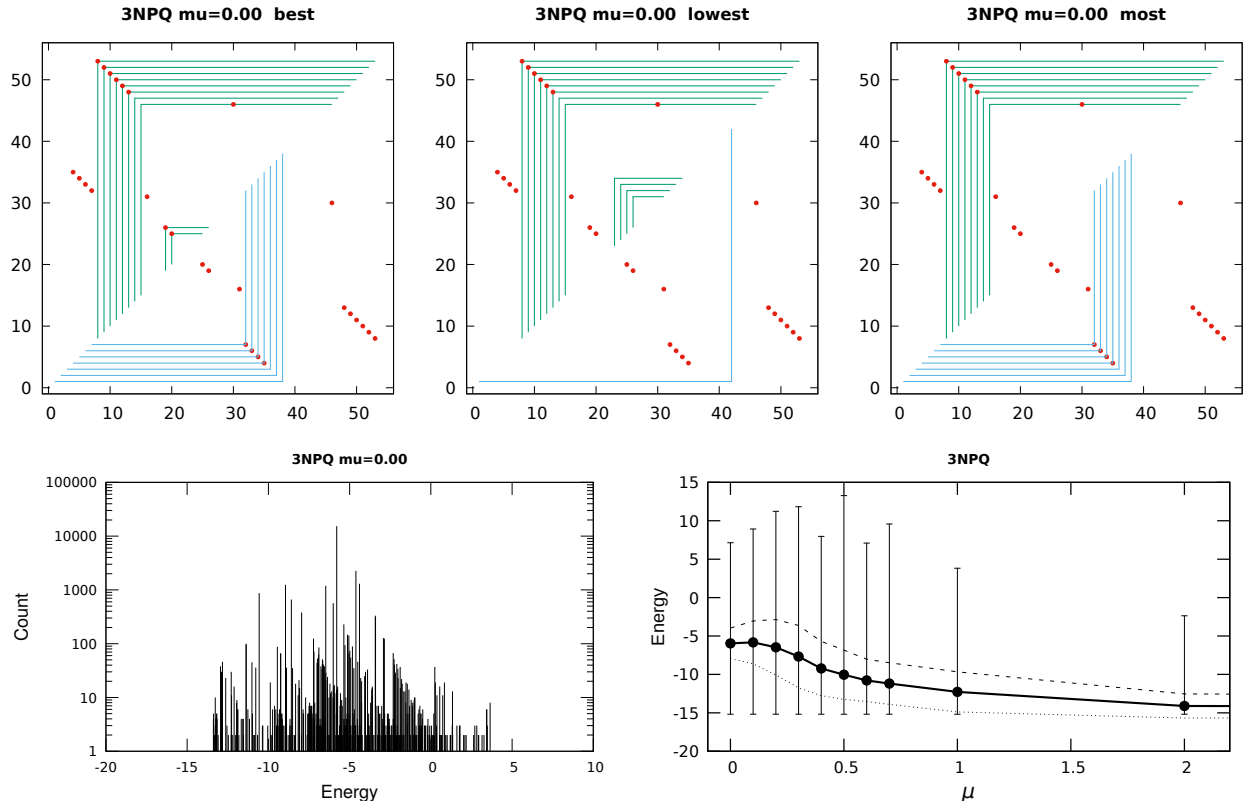


3NPQ

GGACGAGGAG CGCUGCAAGC GAGAGCCCAG GCUCGUCCGU UCAAACGGCG CUCA

mu: 0 mean energy: -5.95506 variance: 3.94923

lowest: -15.175336 most probable(50.970%): -5.795585 best match: 0.186514

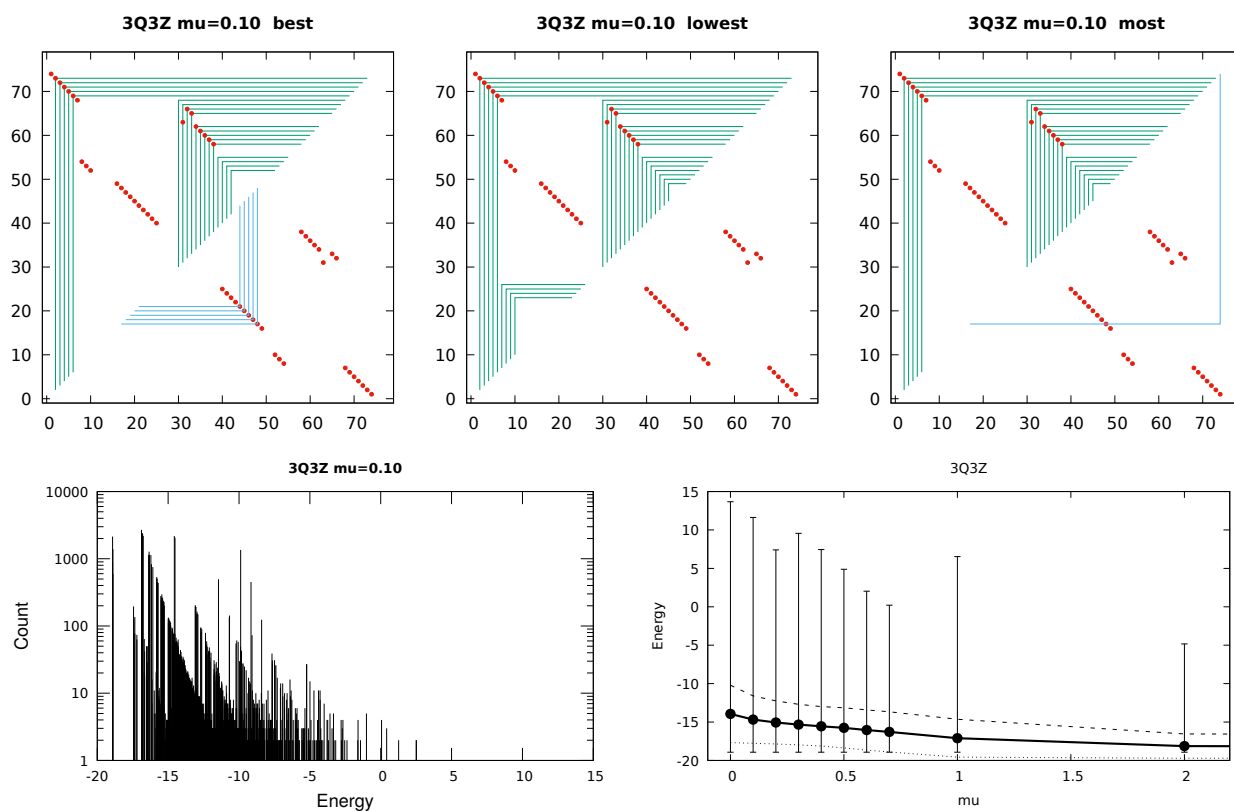


3Q3Z

XCGCGGAAAC AAUGAUGAAU GGGUUUAAAU UGGGCACUUG ACUCAUUUUG AGUUAGUAGU
GCAACCGACC GUGCUXX

mu: 0.1 mean energy: -14.6788 variance: 9.51776

lowest: -18.923003 most probable(4.485%): -16.877630 best match: 1.992014

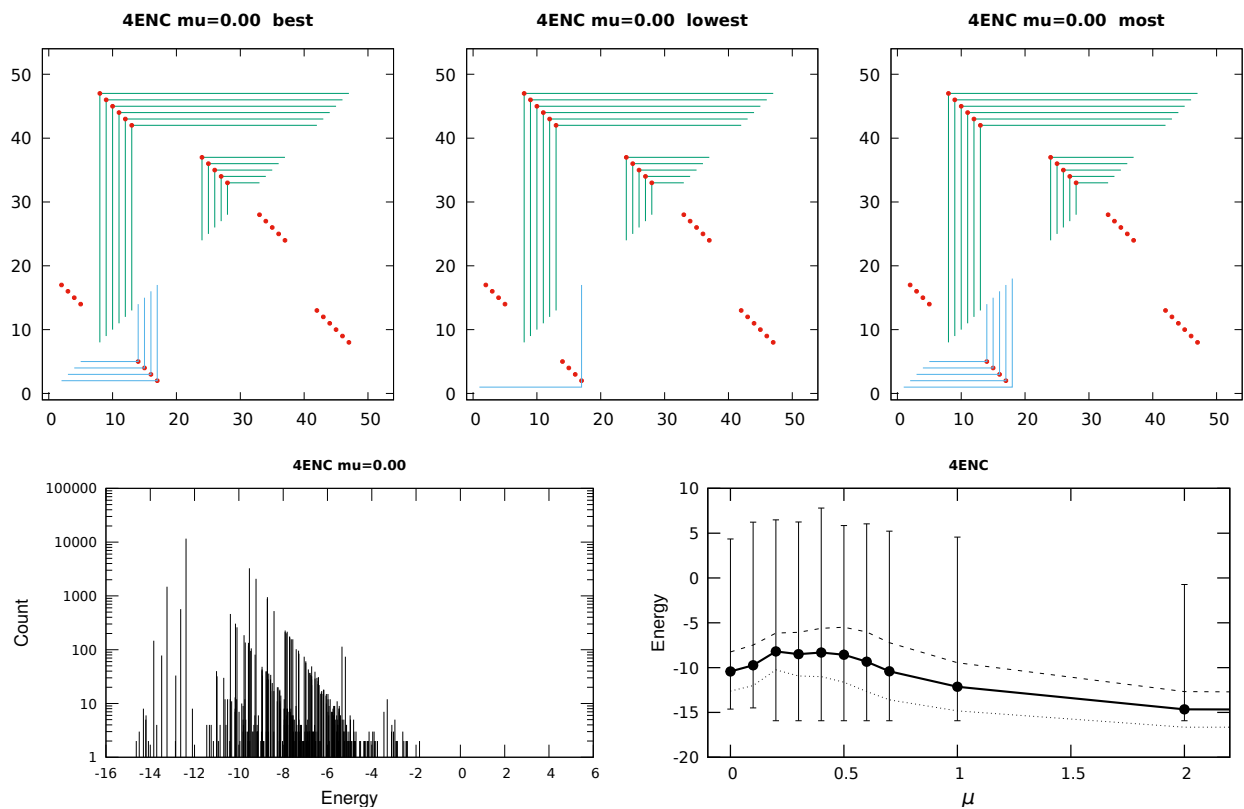


4ENC

GGGCGAUGAG GCCCGCCCAA ACUGCCCUGA AAAGGGCUGA UGGCCUCUAC UG

mu: 0 mean energy: -10.4331 variance: 4.75528

lowest: -14.631820 most probable(38.697%): -12.385153 best match: -12.625987

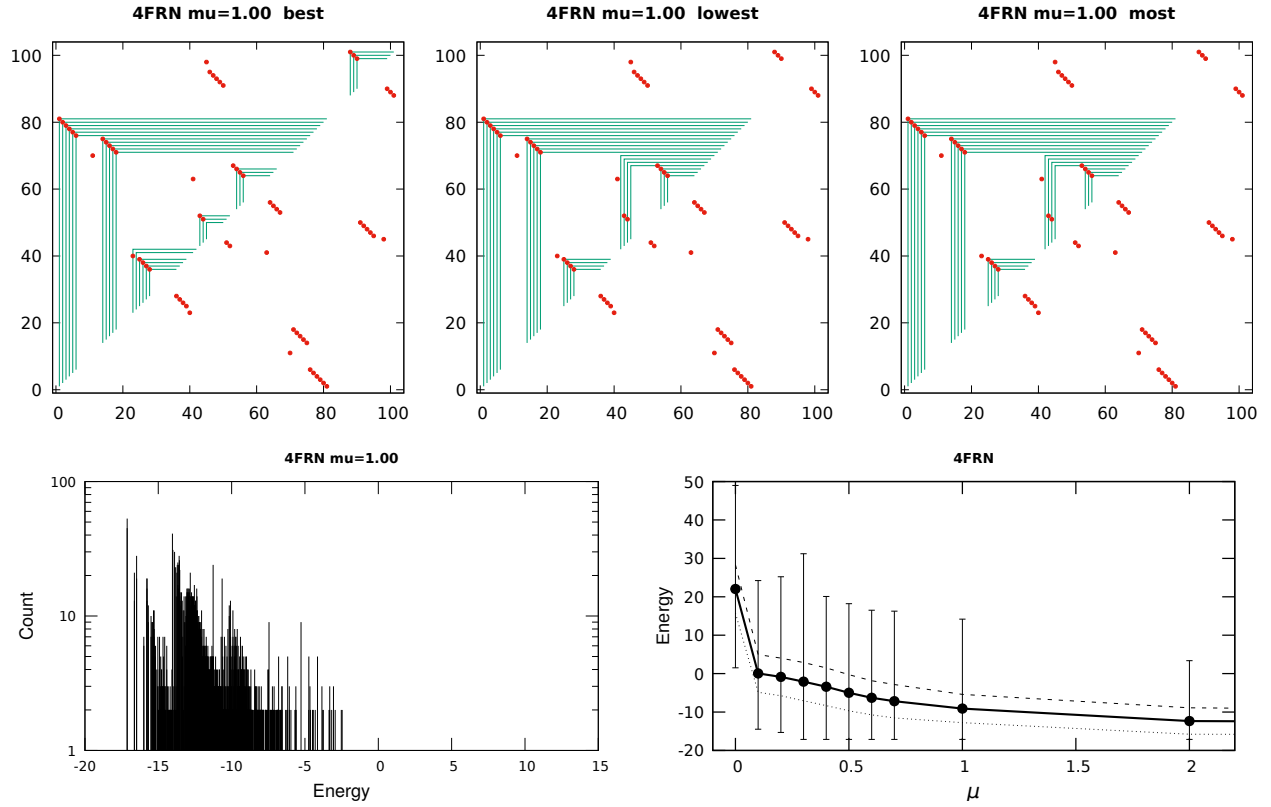


4FRN

GGGCUAAAAG CAUGGUGGGA AAGUGACGUG UAAUUCGUCC ACAUUACUUG AUACGGUUAU
ACUCCGAAUG CCACCUAGCC CAAAGUAGAG CAAGGAGACU CA

mu: 1 mean energy: -9.09448 variance: 13.5464

lowest: -17.123502 most probable(0.265%): -17.123502 best match: 1.308224

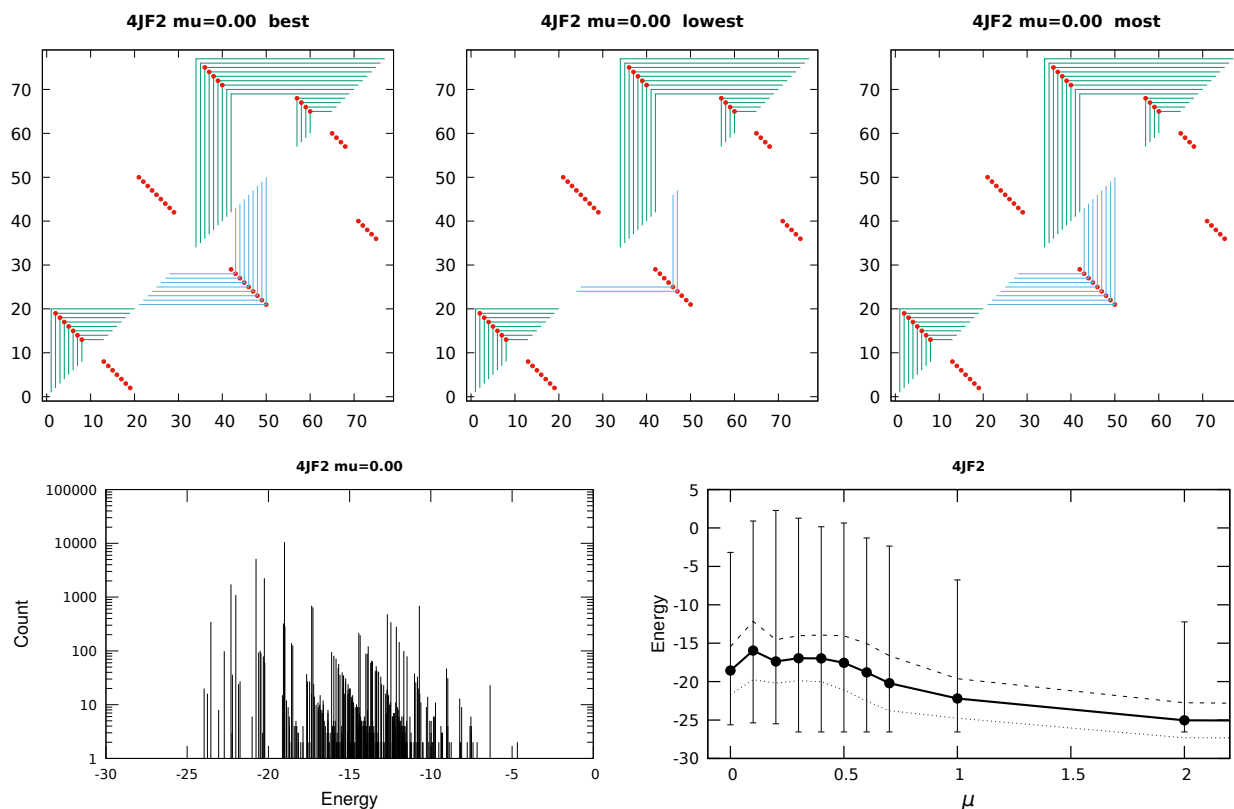


4JF2

GGAACGCGA AAGCGGUUCC ACGACGAUAC UUAUUUCCUU UGAUCGUCGU UAUUACUGGC
UUCGGCCACA AAGGAGA

mu: 0 mean energy: -18.5562 variance: 9.68906

lowest: -25.618448 most probable(35.233%): -19.008320 best match: -19.008320



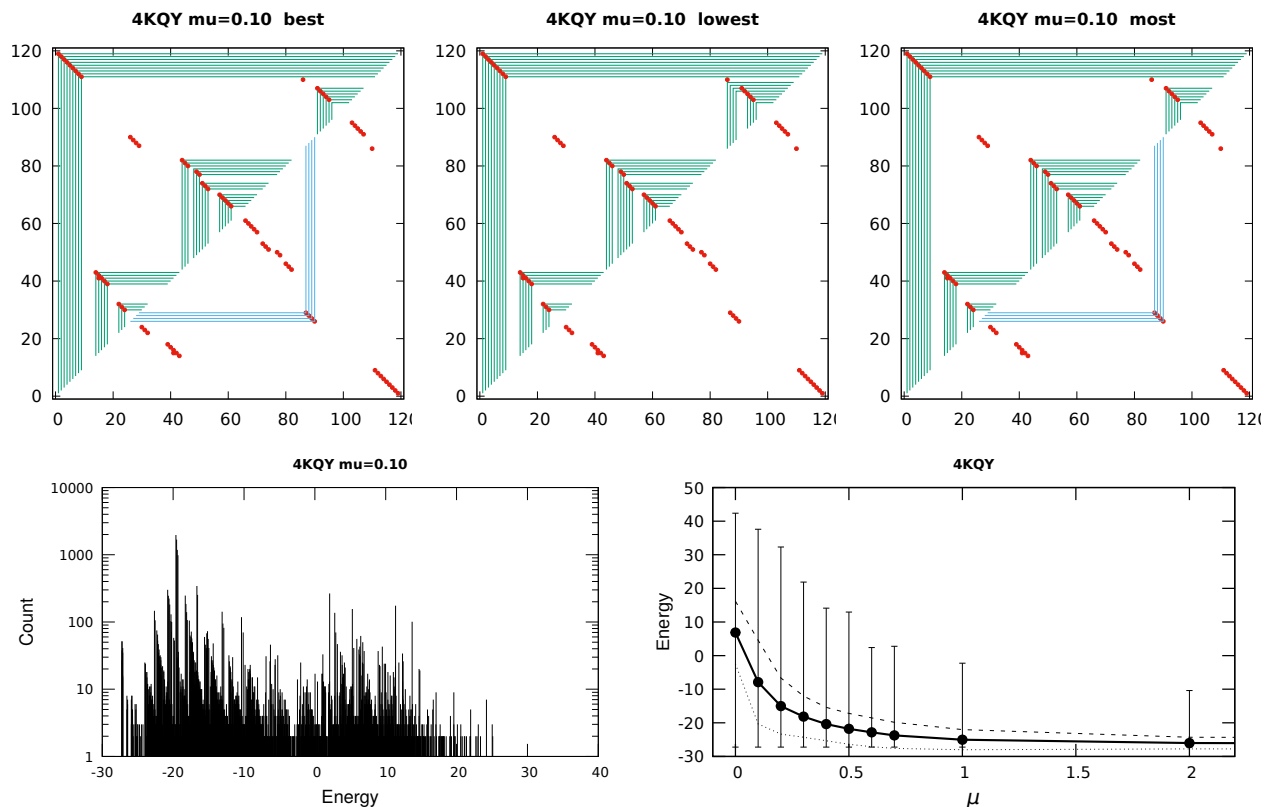
4KQY

GUUCUUAUCA AGAGAAGCAG AGGGACUGGC CCGACGAAGC UUCAGCAACC GGUGUAAUGG

CGAAAGCCAU GACCAAGGUG CUAAAUCCAG CAAGCUCGAA CAGCUUGGAA GAUAAGAAC

mu: 0.1 mean energy: -7.88235 variance: 154.793

lowest: -27.217838 most probable(4.913%): -19.612334 best match: -19.612334

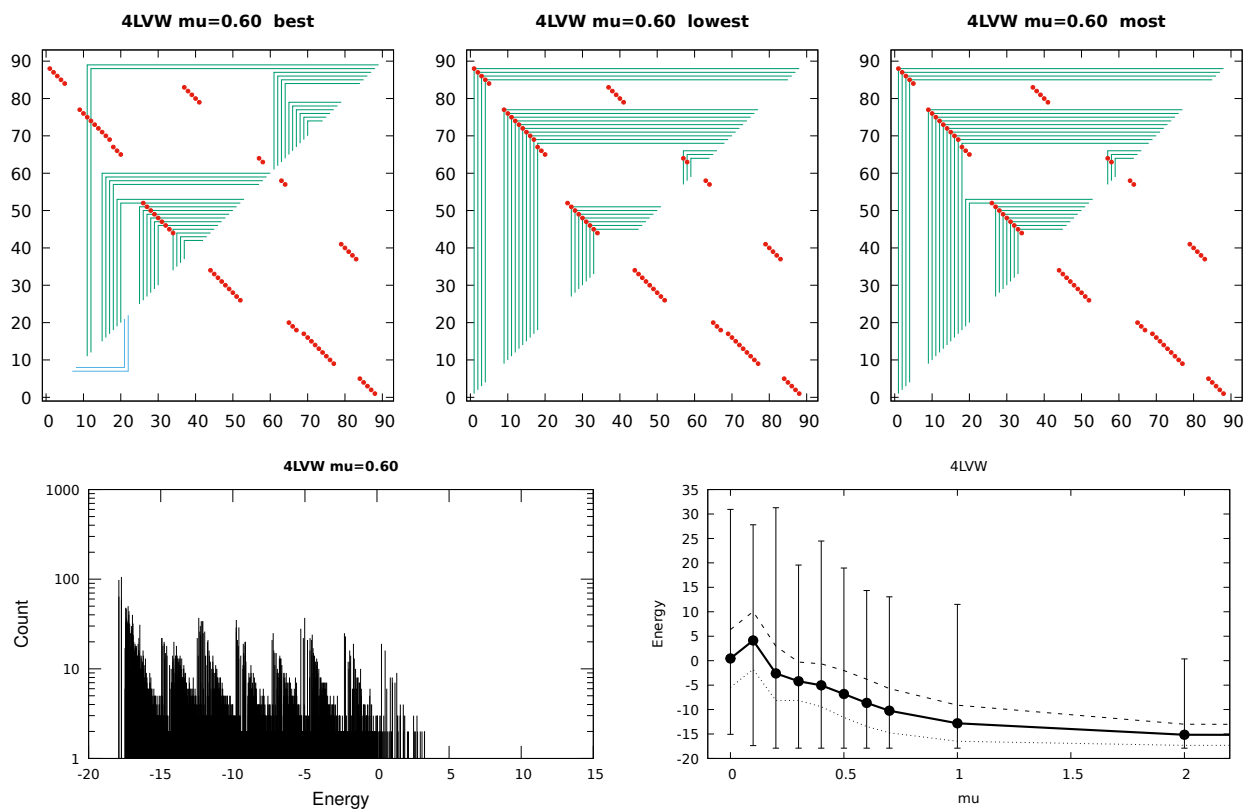


4LVW

GGAGAGUAGA UGAUUCGCGU UAAGUGUGUG UGAAUGGGAU GUCGUCACAC AACGAAGCGA
GAGCGCGGUG AAUCAUUGCA UCCGCUCCAX X

mu: 0.6 mean energy: -8.63036 variance: 23.4384

lowest: -17.900901 most probable(0.265%): -17.726083 best match: -7.520752

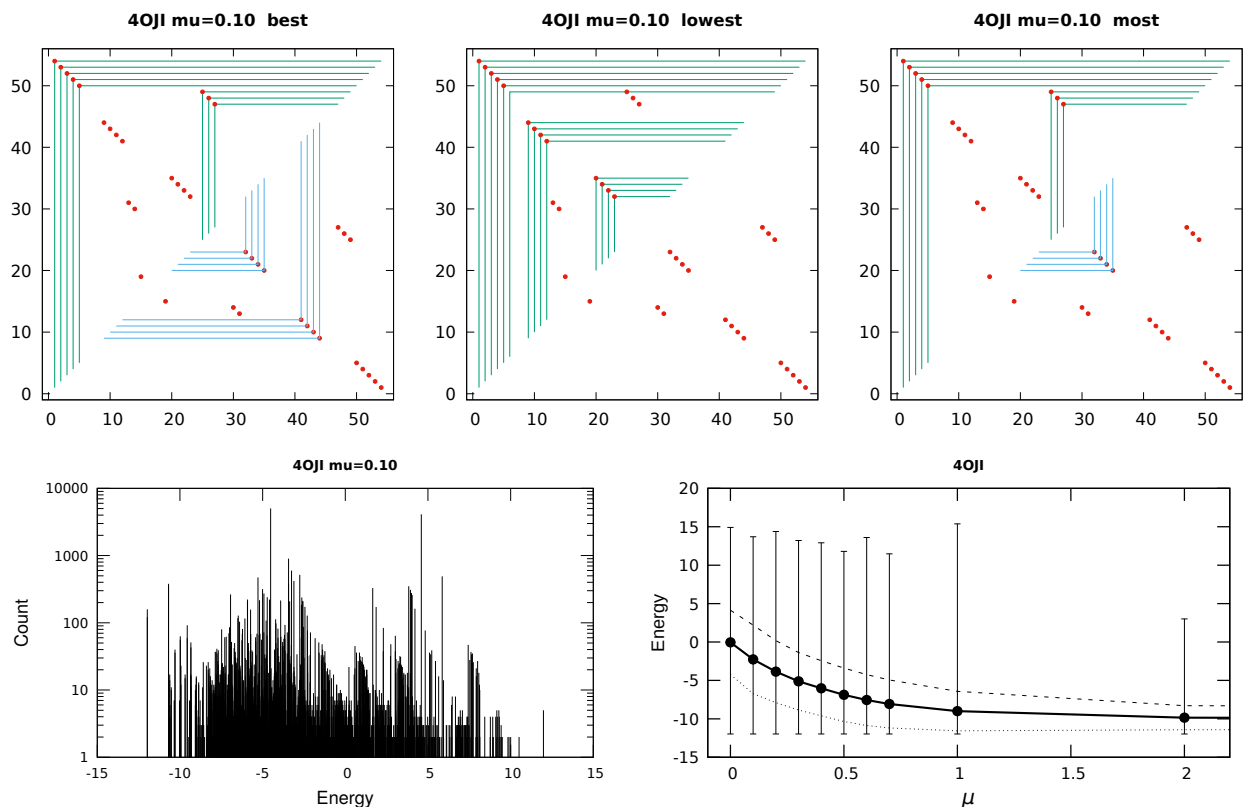


4OJI

CCGCCUAACA CUGCCAAUGC CGGUCCCAAG CCCGGAUAAA AGUGGAGGGG GCGG

mu: 0.1 mean energy: -2.26656 variance: 19.9284

lowest: -11.971752 most probable(12.580%): -4.516357 best match: -2.680192

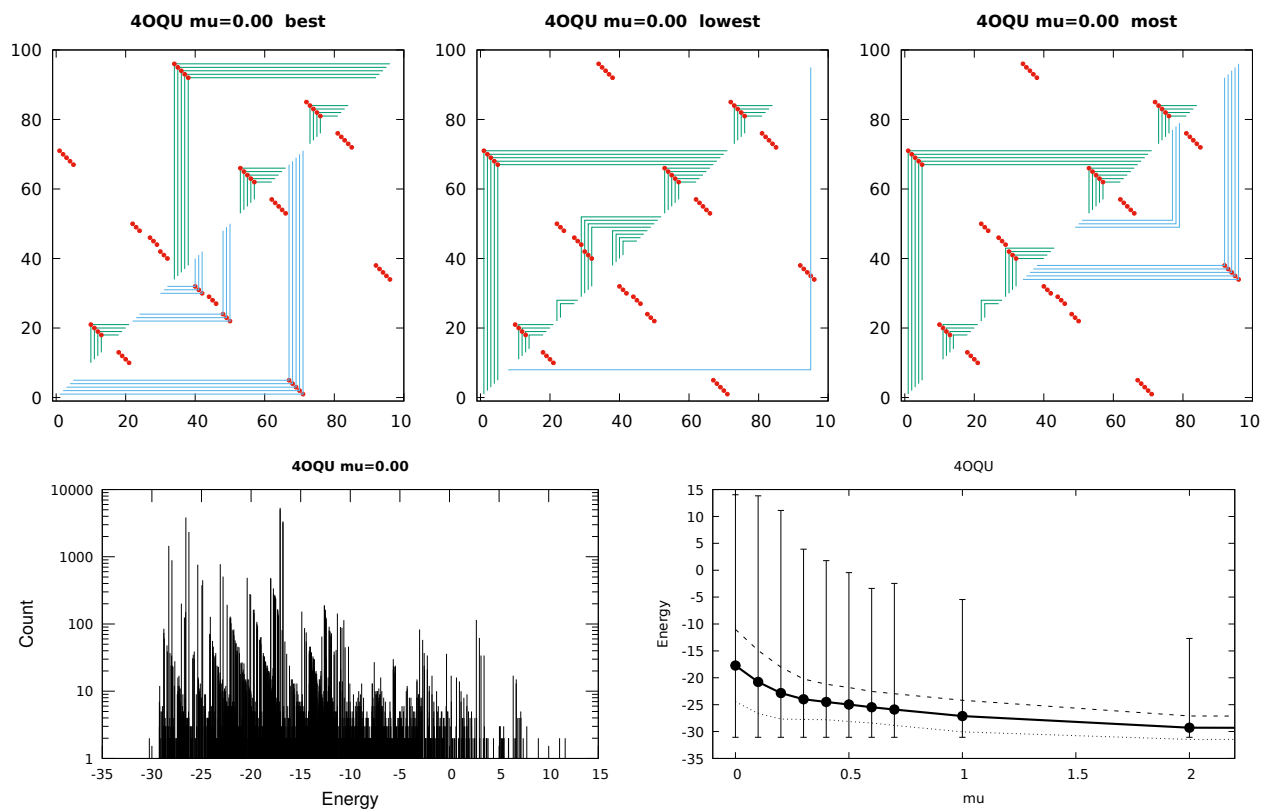


40QU

GGAUCACGAG GGGGAGACCC CGGCAACCUG GGACGGACAC CCAAGGUGCU CACACCGGAG
ACGGUGGAUC CGGCCCGAGA GGGCAACGAA GUUCCGAX

mu: 0 mean energy: -17.7227 variance: 45.2239

lowest: -31.068334 most probable(8.900%): -17.068652 best match: -3.173021

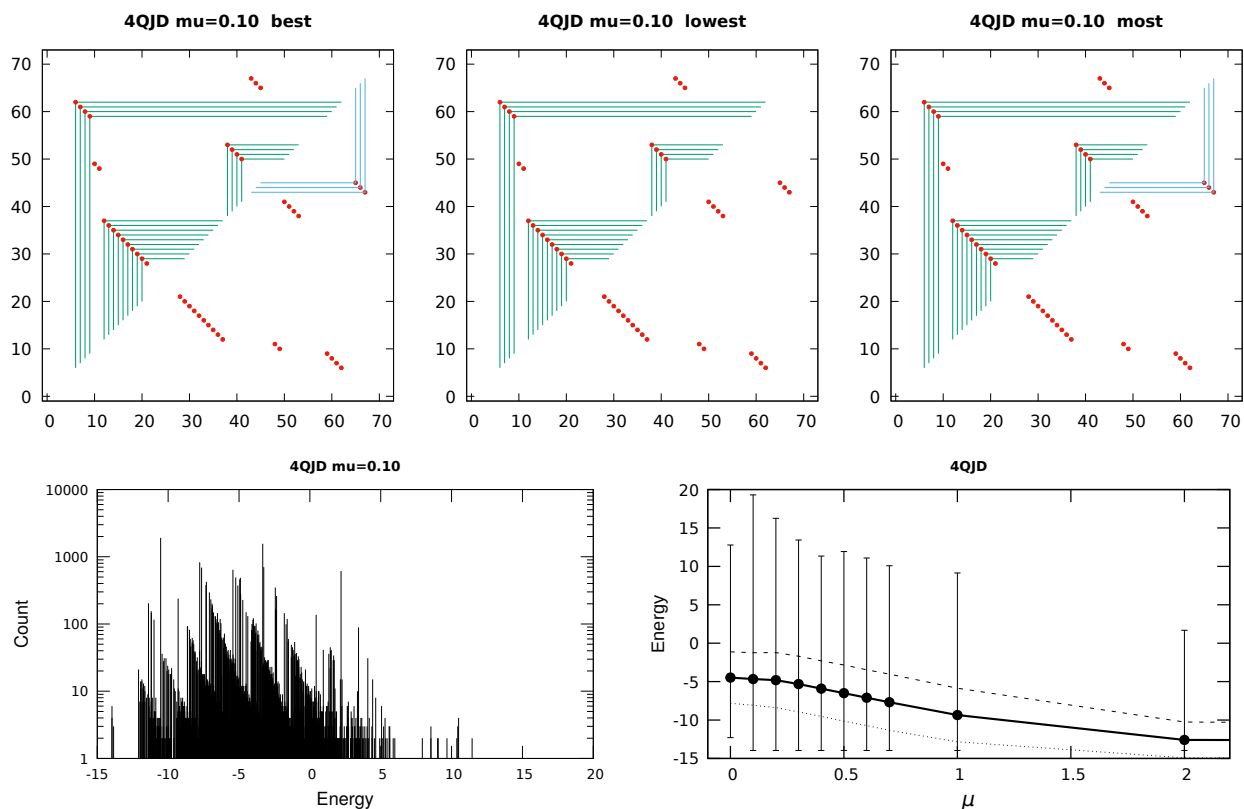


4QJD

UGUAACUCCG CCUAUGUCAU CUUAGUAAAU GAUAUAGCCG GUCCCAAGCC CGGAAAAAGG
AGGAGGGUAU A

mu: 0.1 mean energy: -4.65873 variance: 11.6934

lowest: -13.962002 most probable(4.775%): -10.530359 best match: -10.530359

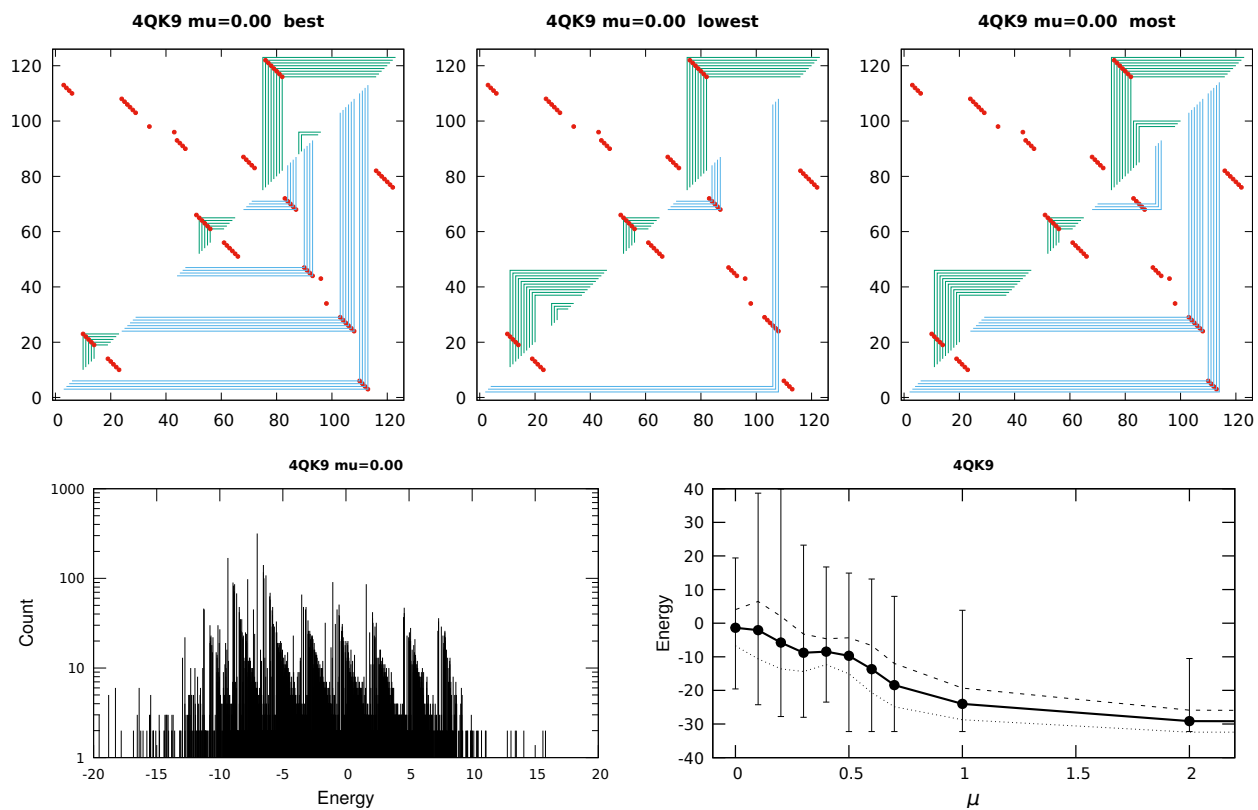


4QK9

GGCGCUGAAU UCCCUGAAGG GAAACGGGGG ACCCAAUCUU CAGGGGUGAA UCCCACGUAA
 GUGGGUAGGG CUAGUCUCUU UCGGCCCAGG CCGUCAGCU AACCUCGUAA GCGUGGAAAG
 AGGX

mu: 0 mean energy: -1.35327 variance: 29.0846

lowest: -19.564262 most probable(1.057%): -7.037484 best match: 7.854073



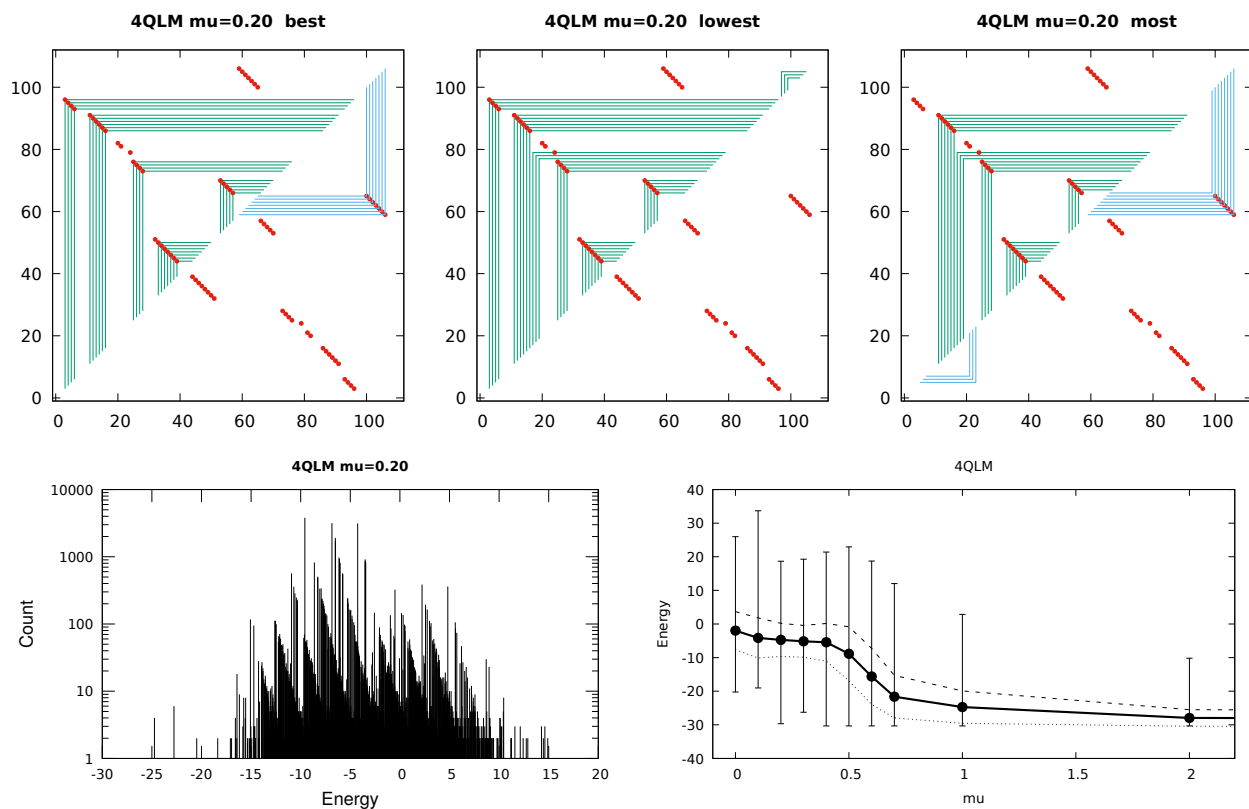
4QLM

AUCGCUGAAC GCGGGGGACC CAGGGGGCGA AUCUCUCCG AAAGGAAGAG UAGGGUUACU

CCUUCGACCC GAGCCCGUCA GCUAACCUCG CAAGCGUCCG AAGGAGAAXX

mu: 0.2 mean energy: -4.73094 variance: 24.2831

lowest: -29.660252 most probable(6.327%): -9.582169 best match: -14.903049

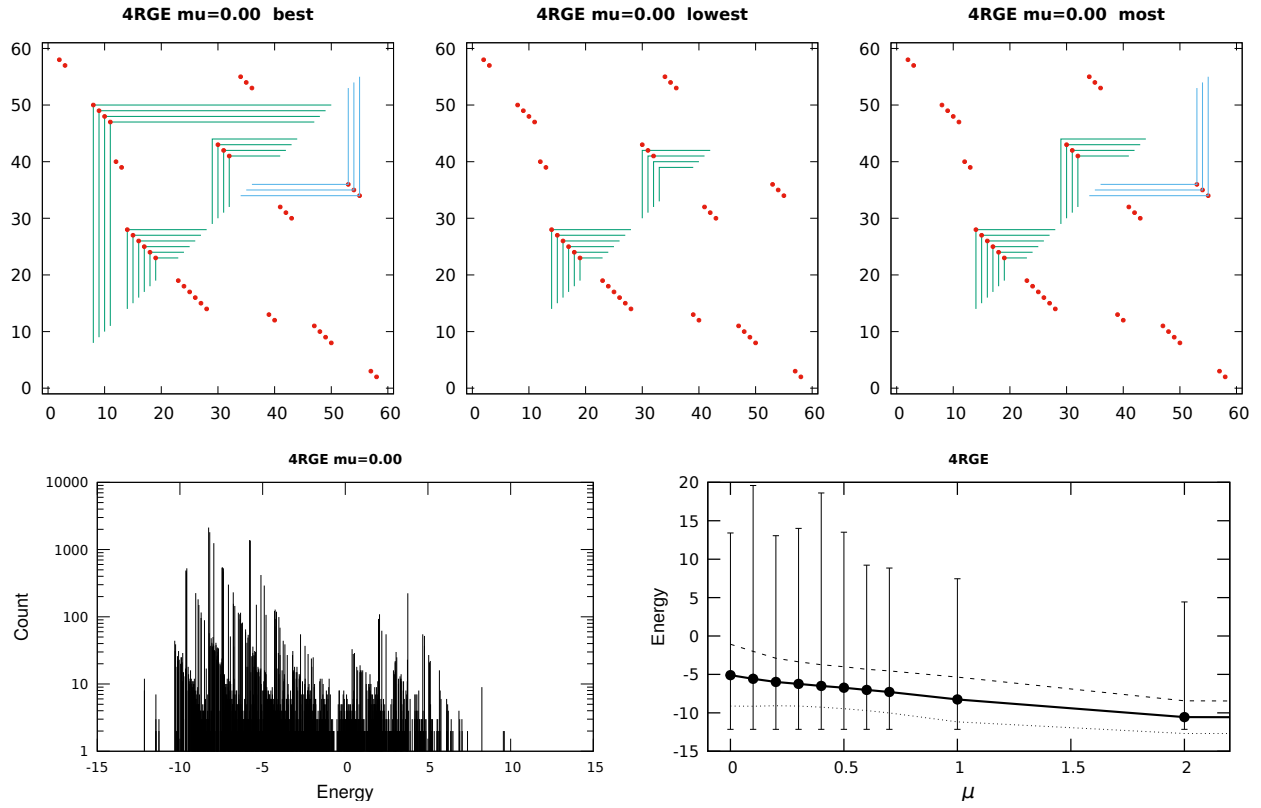


4RGE

UUUUUAAUGA AGCCACAGGX XXCCUGUGAG GGUCCUAAGC CCCUAAUUCA GAAGGGAAA

mu: 0 mean energy: -5.09879 variance: 16.2017

lowest: -12.150085 most probable(7.093%): -8.263071 best match: -7.422692



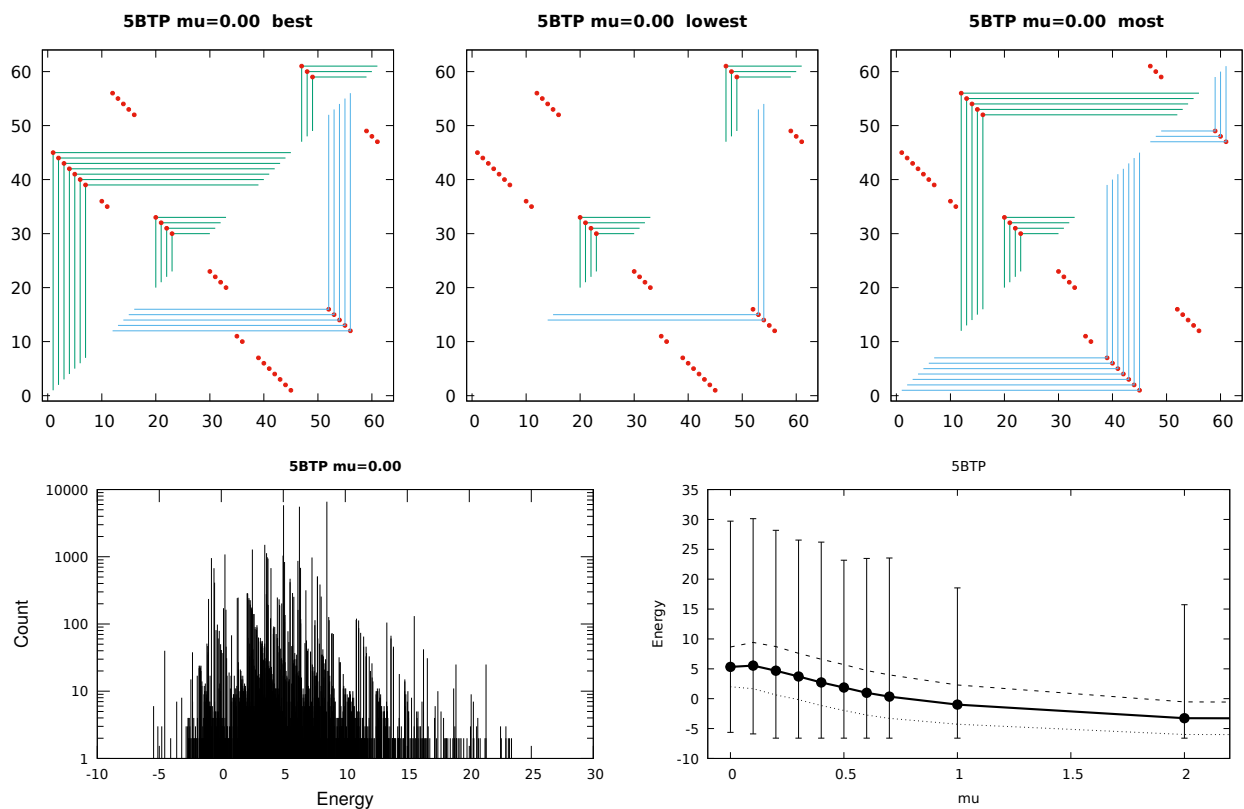
5BTP

GUUAUAUGAC UGACGGAACG UGGAUUUAAAC CACAUGAAGU AUAACGGCCG ACCGUCUGGG

CG

mu: 0 mean energy: 5.31695 variance: 11.0725

lowest: -5.642940 most probable(10.988%): 8.514060 best match: -0.589738

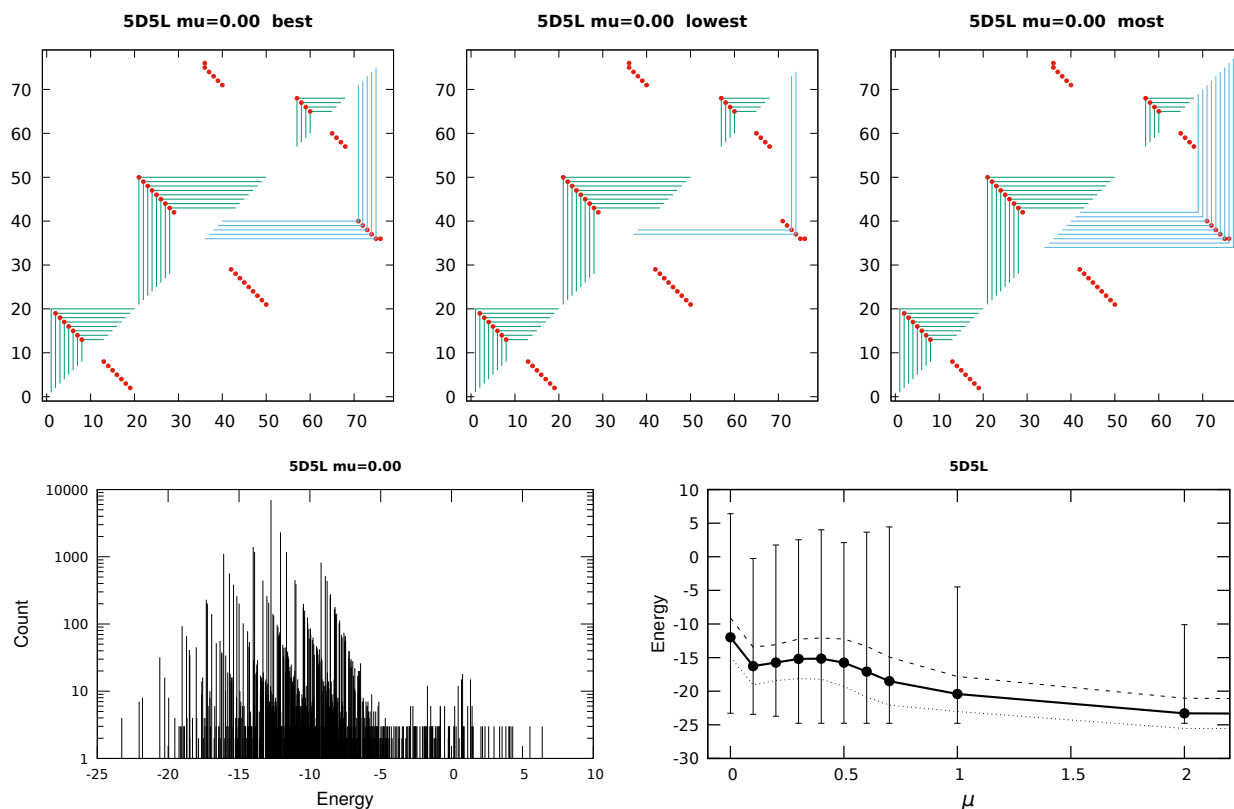


5D5L

GGAAGGCCGA AAGGUCUUC ACACGAUAC UUAUUCCU UGAUCGUCGU UAUUACUGGC
UUCGGCCACA AAGGAGA

mu: 0 mean energy: -11.9873 variance: 8.46948

lowest: -23.272745 most probable(23.203%): -12.742485 best match: -19.014985

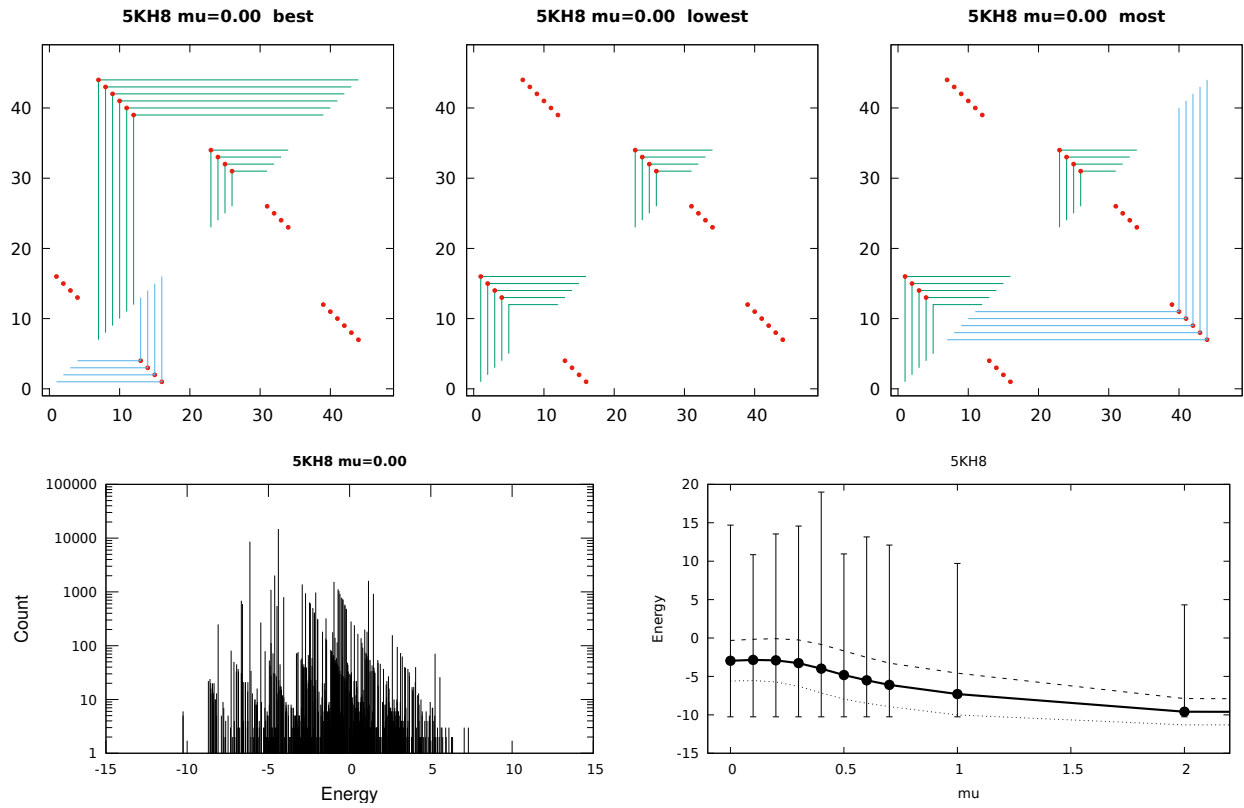


5KH8

GGCGAUGGUG UUCGCCAUAA ACGCUCUUCG GAGCUAAUGA CACCUAC

mu: 0 mean energy: -2.95992 variance: 6.99369

lowest: -10.254167 most probable(24.703%): -4.384667 best match: -4.612235

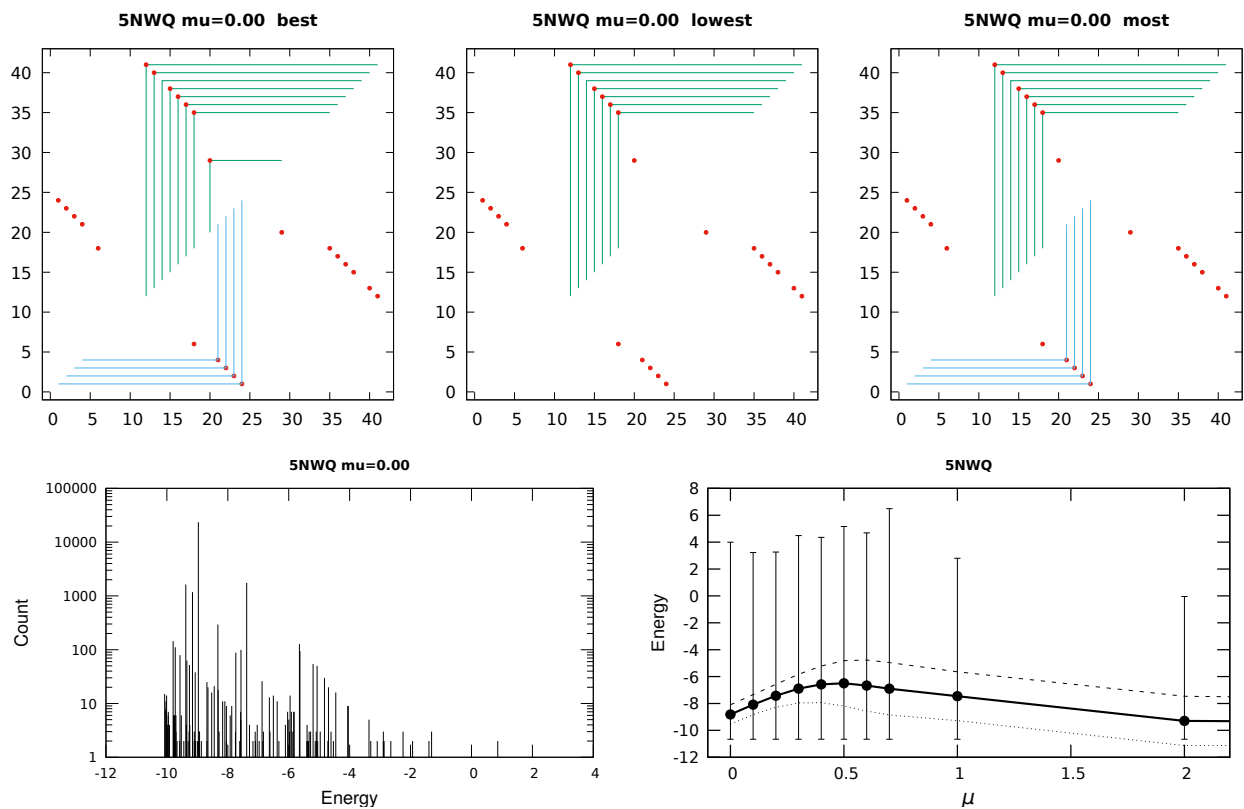


5NWQ

CCGGACGAGG UGCGCCGUAC CCGGUCAGGA CAAGACGGCG C

mu: 0 mean energy: -8.81424 variance: 0.519639

lowest: -10.660605 most probable(78.097%): -8.967066 best match: -3.094358

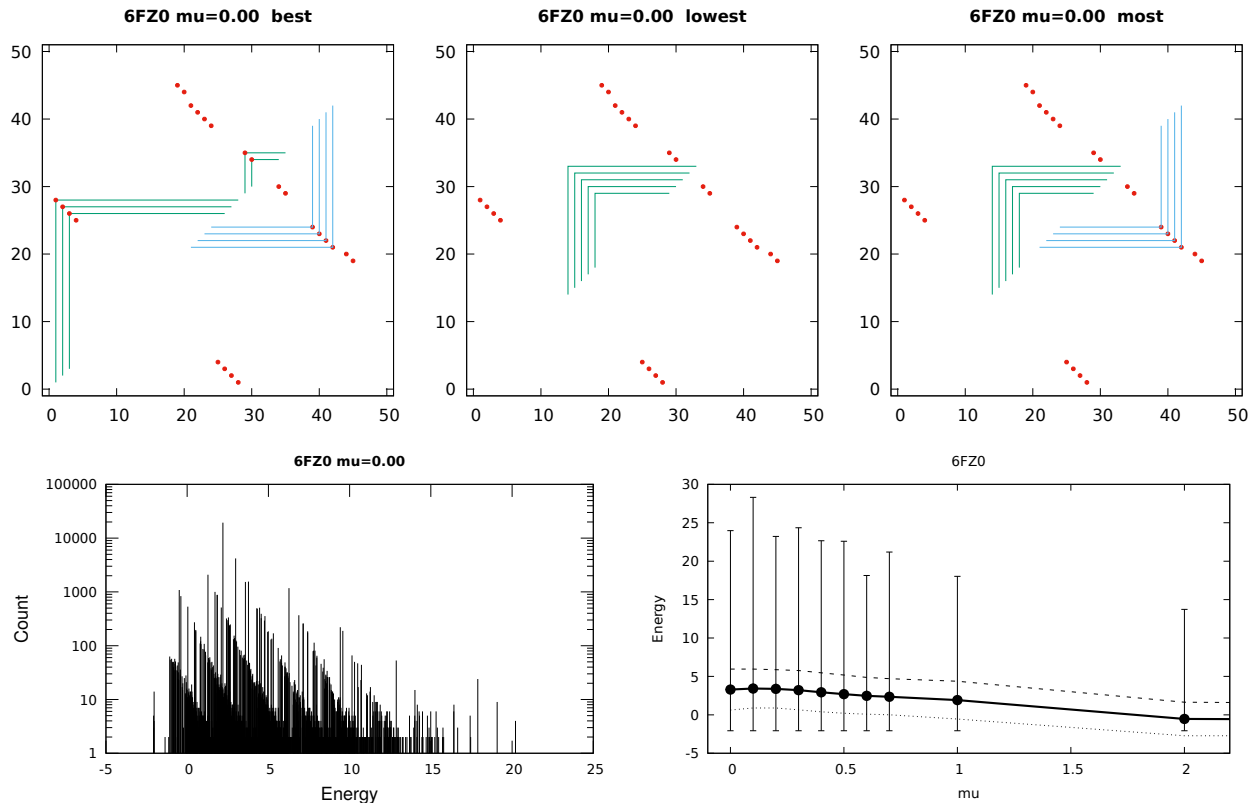


6FZ0

AGGXGCAUUU GAACUGUAUU GUACGCCUUG CAGCAAAAGU ACUAAAAAX

mu: 0 mean energy: 3.29137 variance: 7.07122

lowest: -2.069335 most probable(32.380%): 2.199808 best match: 9.490285

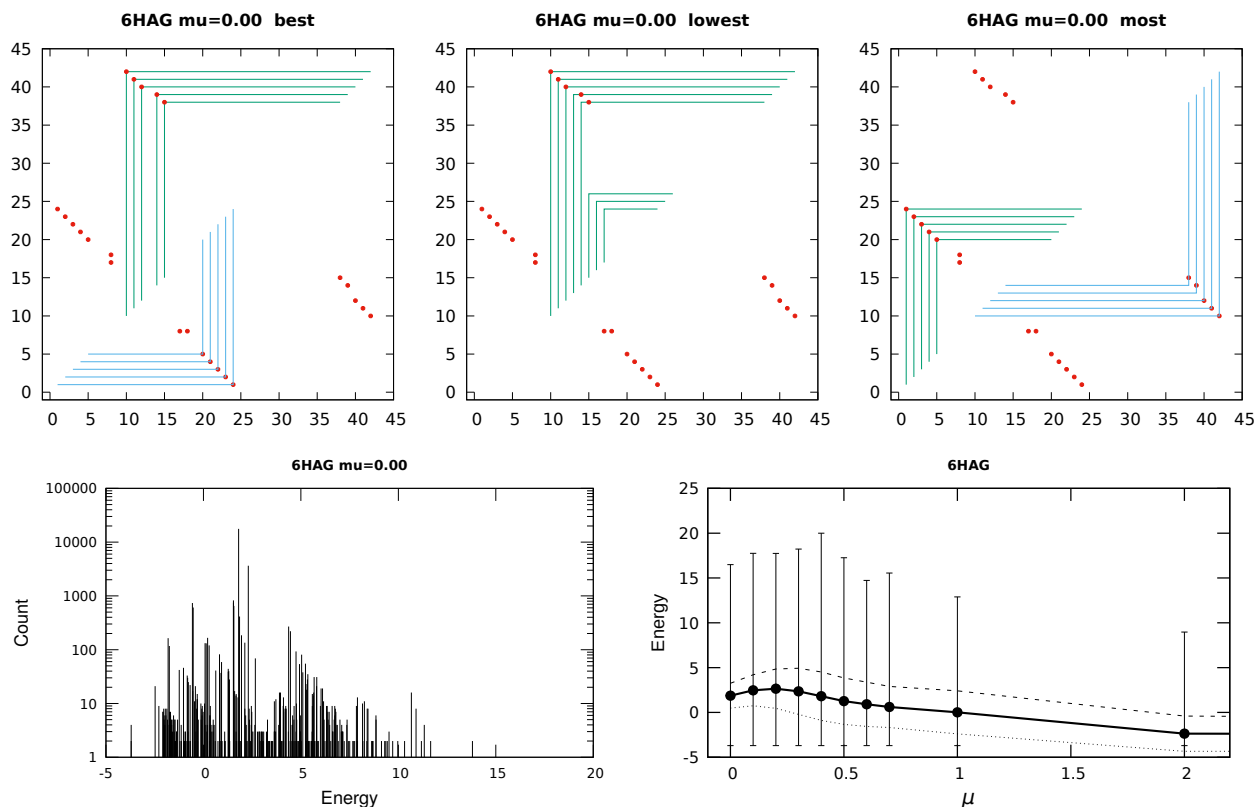


6HAG

GUCACAACGG CUUCCUGACG UGGCAGAUUG AAUUAUUGGA GCA

mu: 0 mean energy: 1.86932 variance: 1.90343

lowest: -3.704334 most probable(58.873%): 1.803491 best match: 5.588777

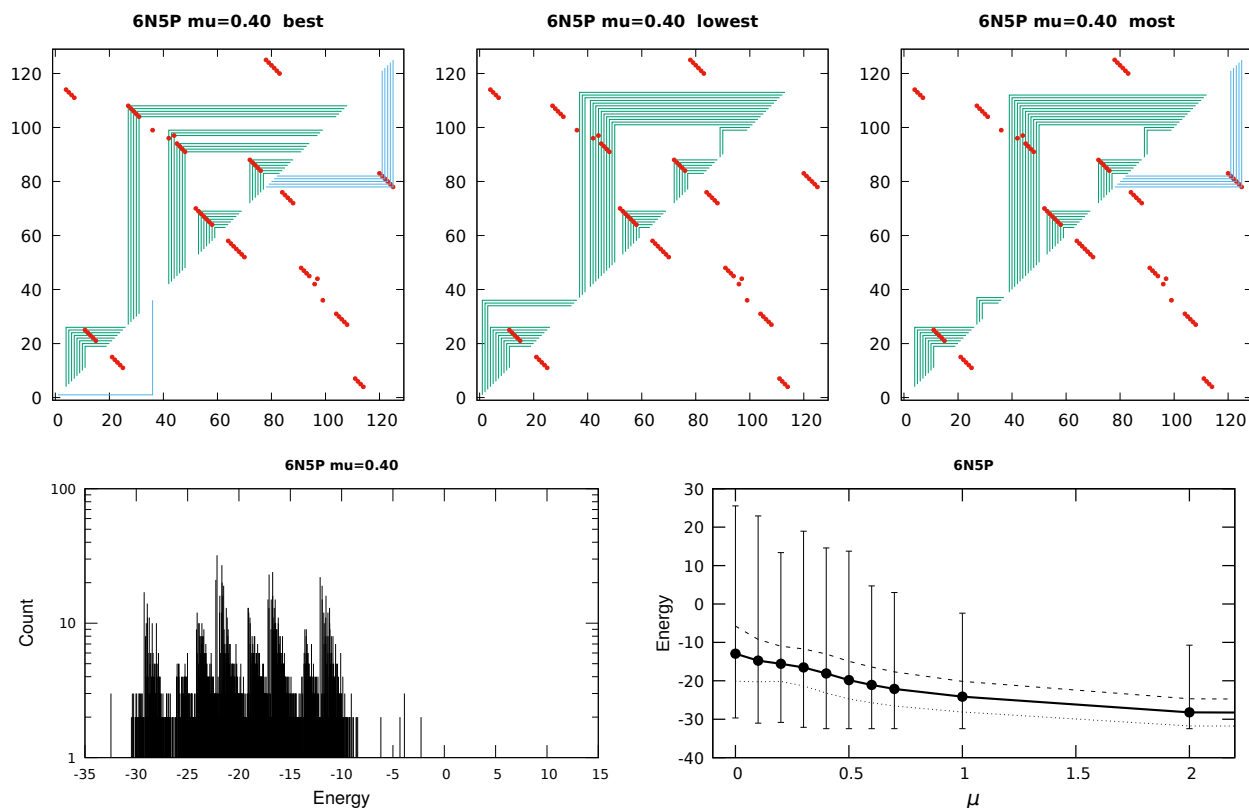


6N5P

GGUUGCCGAA UCCAUGUCGU UUGGUACGGA GGAACCGCUU UUUGGGGUUA AUCUGCAGUG
AAGCUGCAGU AGGGAUACCU UCUGUCCCGC ACCCGACAGC UAACUCCGGA GGCAAUAAAAG
GAAGGAG

mu: 0.4 mean energy: -18.0949 variance: 25.7806

lowest: -32.467921 most probable(0.080%): -22.139466 best match: -13.500762

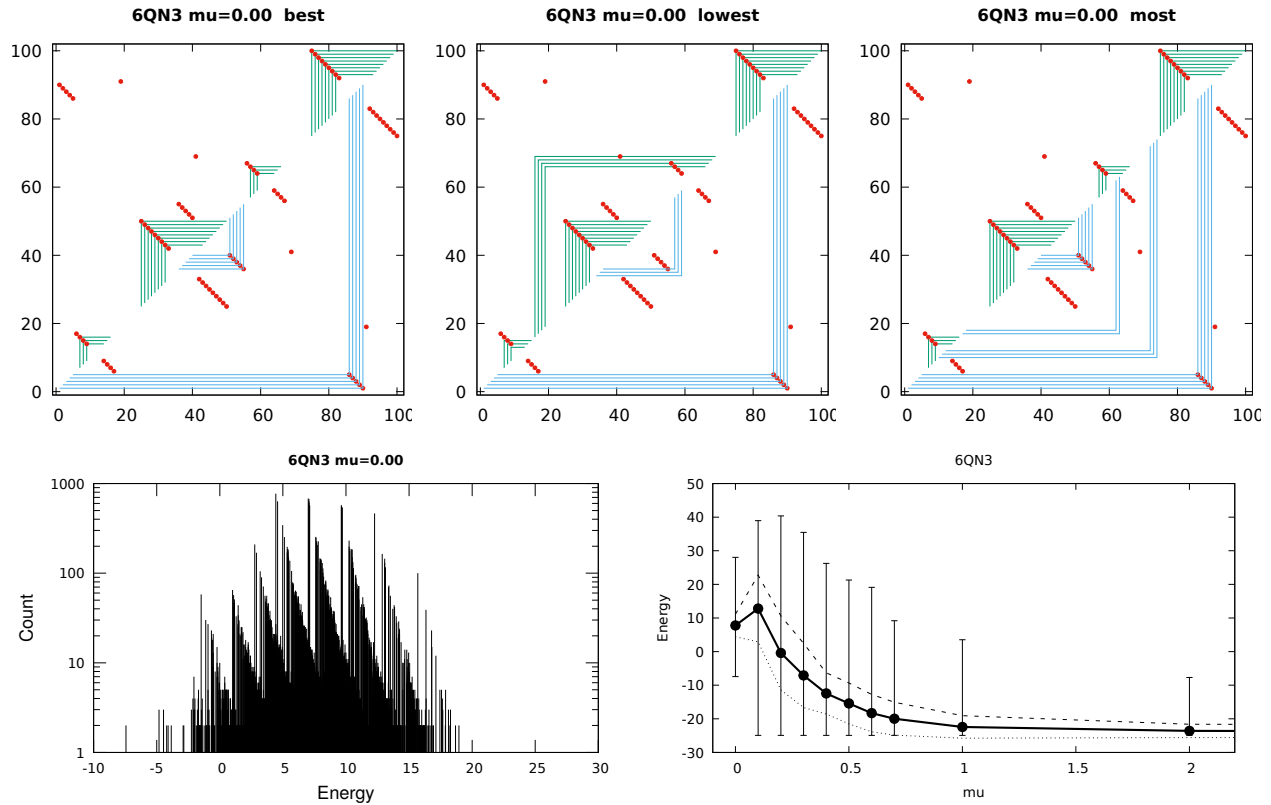


6QN3

CGUUCACCCU UCGGGGCGCA UGAAAUGGGA GUAGGGAACG GGAUUCUCAU CGUUCACCCU
 UCGGGGCGCA UGAAAUGGGA GUAGGGAACG GGAUUCUCAU

mu: 0 mean energy: 7.77613 variance: 11.2605

lowest: -7.436277 most probable(1.287%): 4.440498 best match: -4.097669

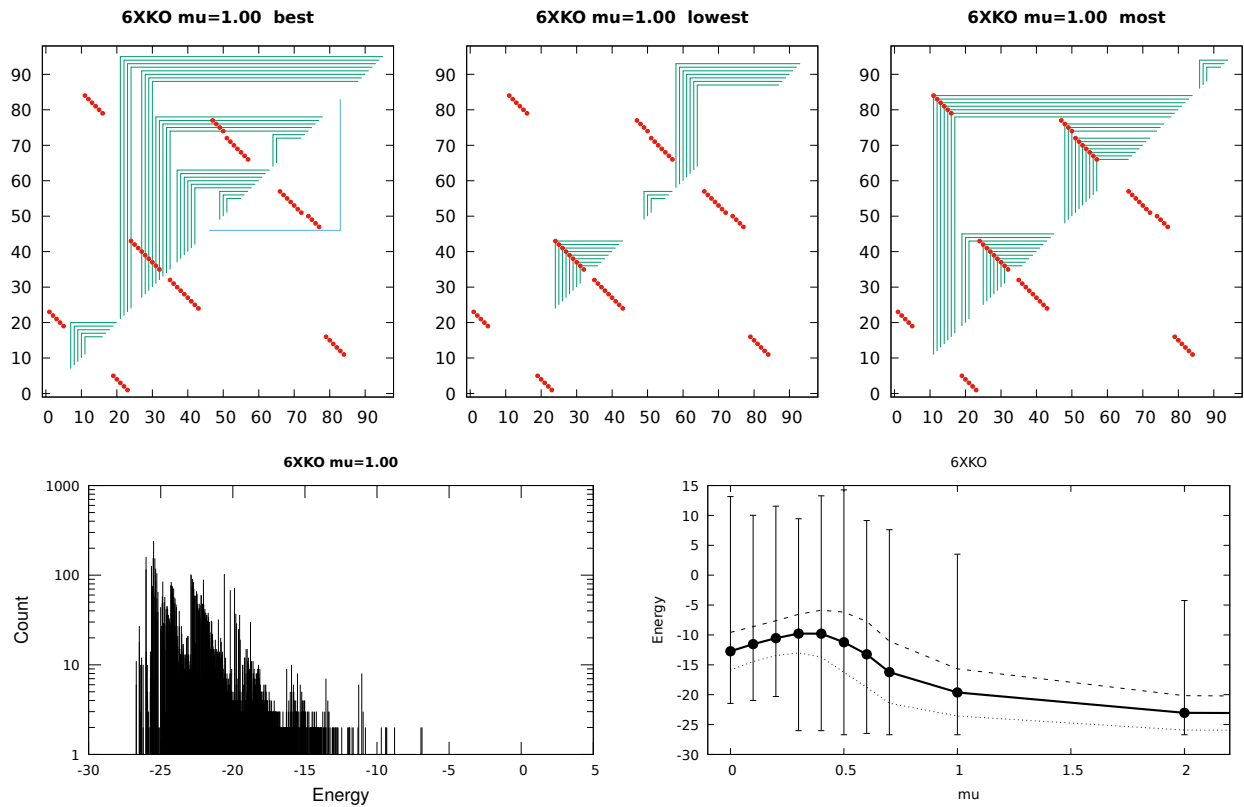


6XKO

XAGCAACUUA GGAUUUUAGG CUCCCCGGCG UGACCAUGCC GGGCCAAACC CAUAGGGCUG
GCGGUCCCUG UGCGGUCGAA AUUCAUCCGC CGGAGX

mu: 1 mean energy: -19.6181 variance: 15.6196

lowest: -26.697343 most probable(0.603%): -25.493252 best match: -15.201051



6YL5

GGUCACAACG GCUUCCUGGC GUGACCAUUG GAGCA

mu: 0.3 mean energy: -5.00414 variance: 8.12235

lowest: -8.889084 most probable(13.018%): -8.889084 best match: 5.344499

