

Supplemental Data Set S2

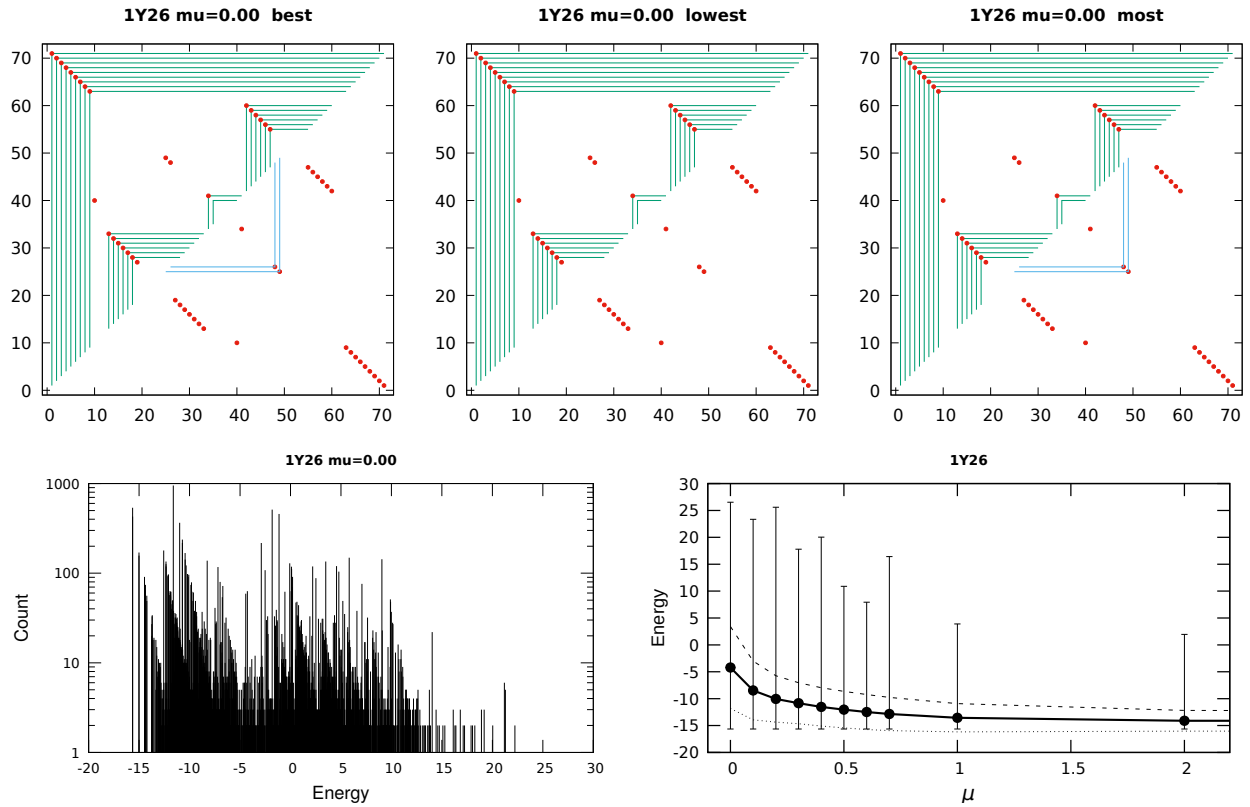
Fold prediction data for all 18 target sequences in the Rzs test set with kissing loop interactions listed in Table 4. All numerical values and three structures of relevance are included along with energy spectrum and ensemble energy profile as a function of the chemical potential.

1Y26

CGCUUCAUAU AAUCCUAAUG AUAUGGUUUG GGAGUUUCUA CCAAGAGCCU UAAACUCUUG
AUUAUGAAGU G

mu: 0 mean energy: -4.20495 variance: 58.053

lowest: -15.639669 most probable(3.173%): -11.608002 best match: 22.236999

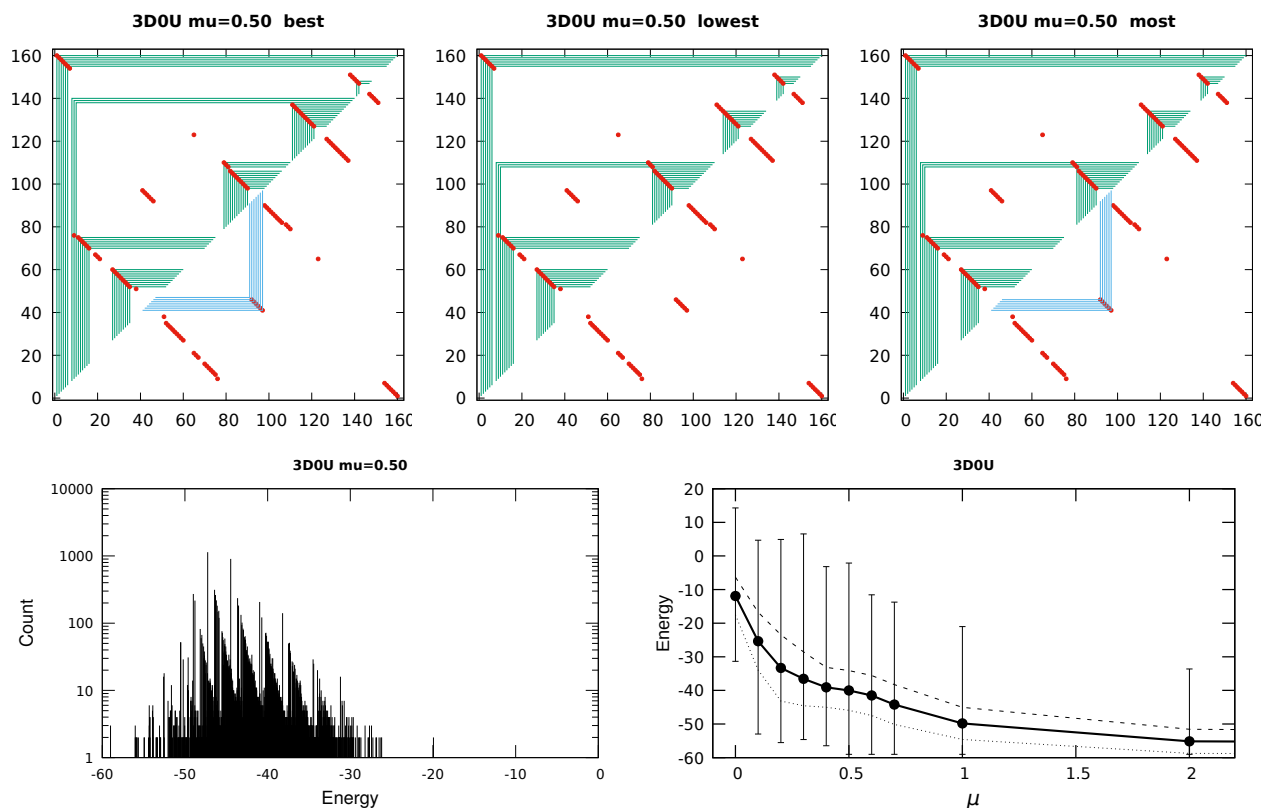


3D0U

GGACGGAGGC GCGCCCGAGA UGAGUAGGCU GUCCCAUCAG GGGAGGAAUC GGGGACGGCU
 GAAAGGCGAG GGCGCCGAAG CGAGCAGAGU UCCUCCCGCU CUGCUUGGCU GGGGUGAGG
 GGAUACCCU UACCACUGUC GCGAAAGCGG AGAGCCGUCC A

mu: 0.5 mean energy: -40.0118 variance: 34.8852

lowest: -59.005448 most probable(2.842%): -47.245448 best match: -40.516284

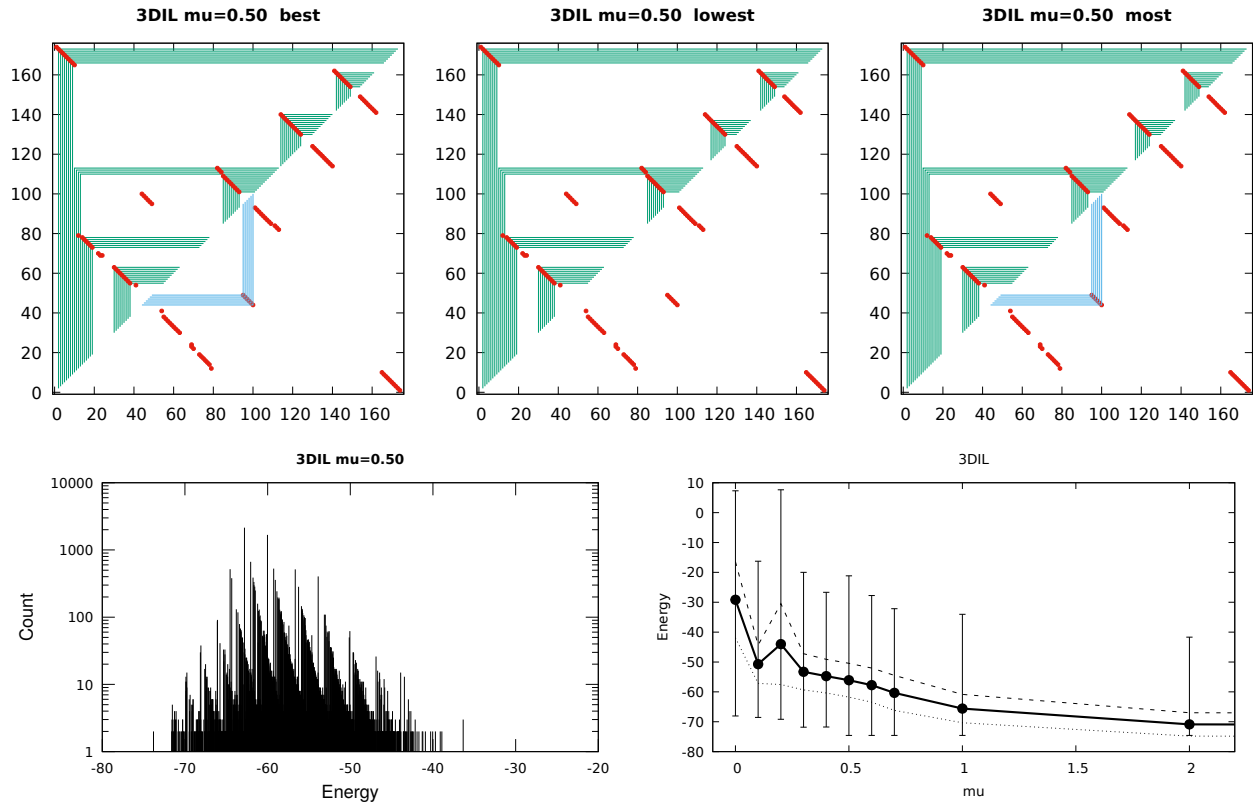


3DIL

GGCCGACGGA GGCGCGCCCG AGAUGAGUAG GCUGUCCCAU CAGGGGAGGA AUCGGGGACG
 GCUGAAAGGC GAGGGCGCCG AAGGGUGCAG AGUUCCUCCC GCUCUGCAUG CCUGGGGGUA
 UGGGGAUAC CCAUACCACU GUCACGGAGG UCUCUCCGUG GAGAGCCGUC GGUX

mu: 0.5 mean energy: -56.0803 variance: 32.0166

lowest: -74.560032 most probable(3.578%): -62.800032 best match: -44.450391

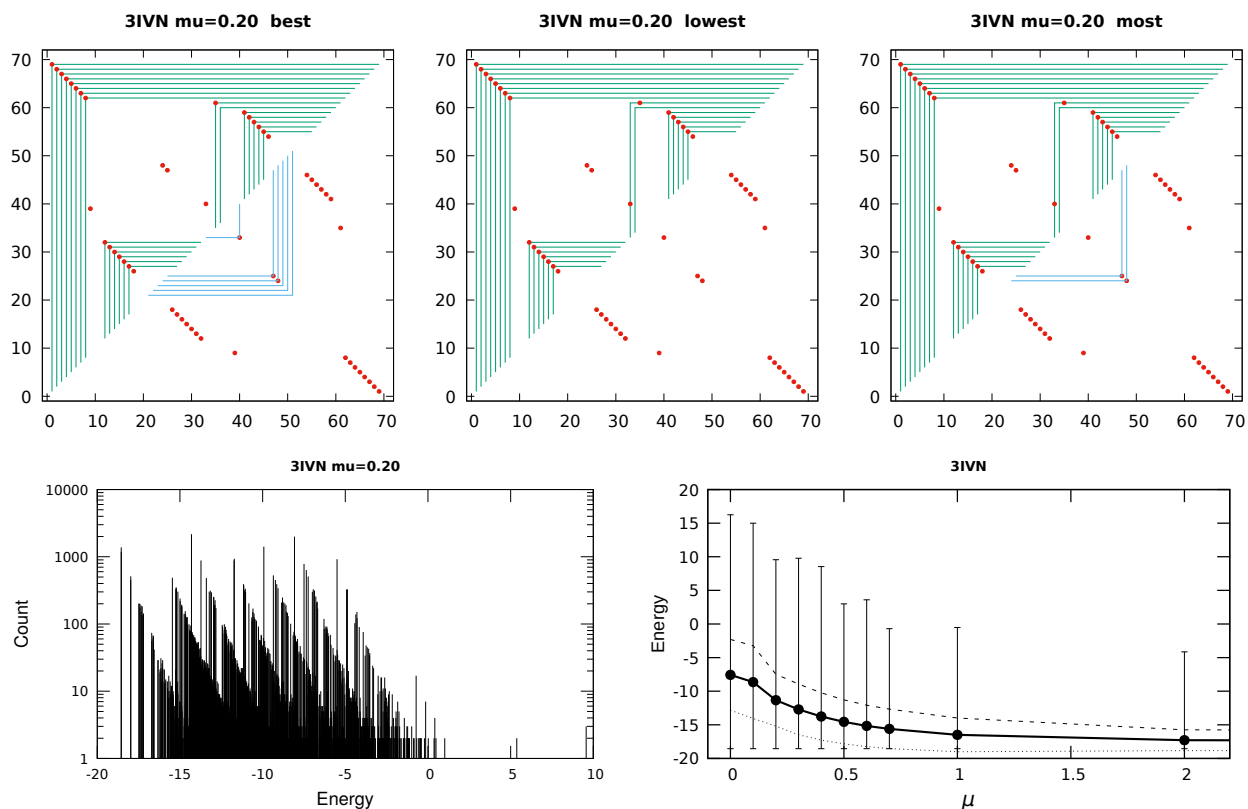


3IVN

GGCCAGUAUA ACCUCAAGA UAUGGUUUGA GGGUGUCUAC CAGGAACCGU AAAAUCCUGA
CUACUGGUCX

mu: 0.2 mean energy: -11.3339 variance: 14.8367

lowest: -18.550669 most probable(3.613%): -14.302336 best match: -1.943669

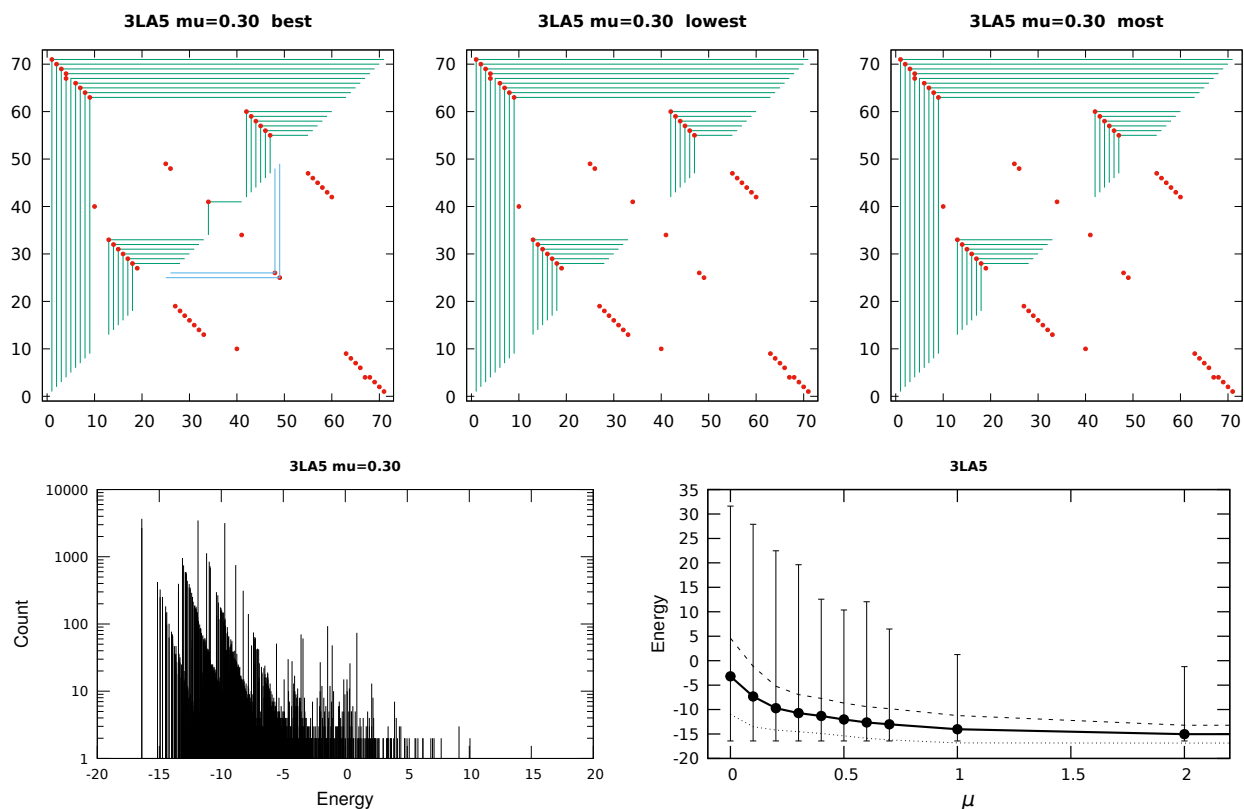


3LA5

GGCUUCAUAU AAUCCGAAUG AUAUGGUUUC GGAGCUUCCA CCAAGAGCCU UAAACUCUUG
ACUAUGGAGU C

mu: 0.3 mean energy: -10.7306 variance: 14.454

lowest: -16.413856 most probable(6.122%): -16.413856 best match: -9.510834

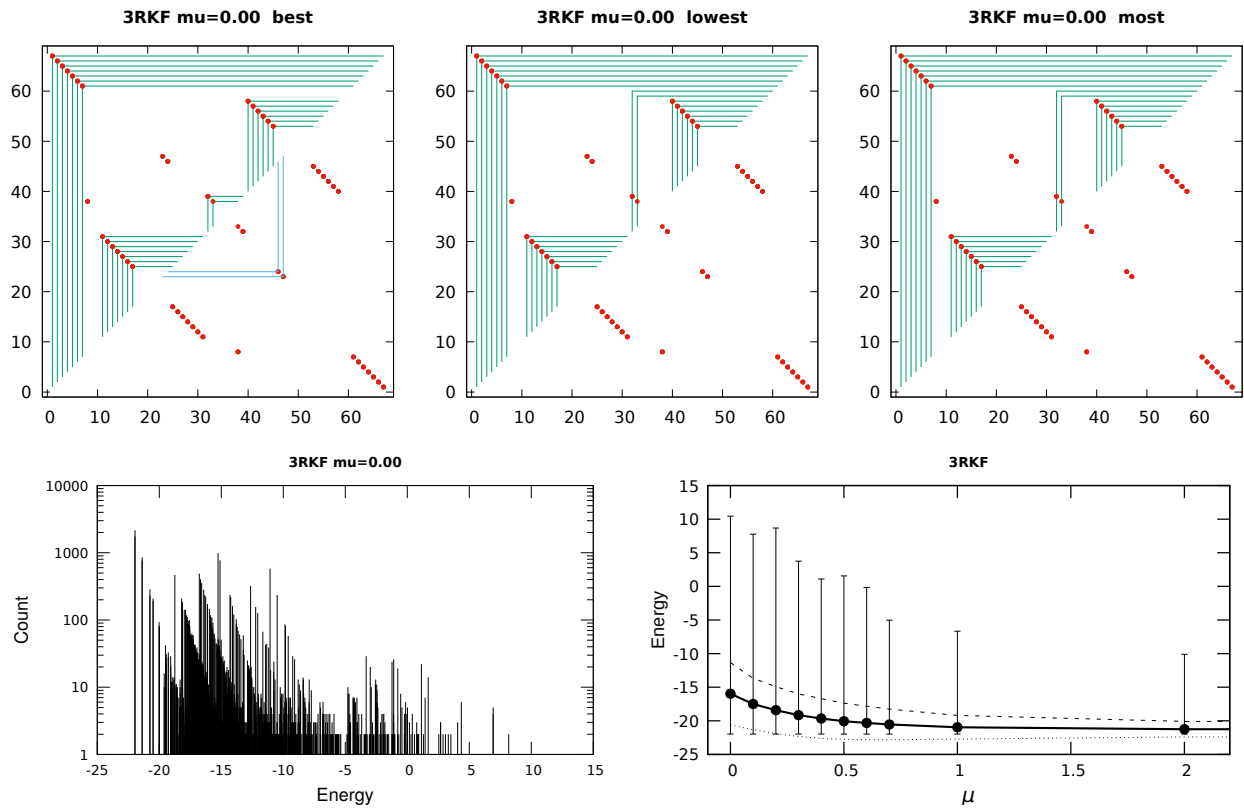


3RKF

GGCCAUUAAA CUGCGUGGAU AUAGCACGCA GGUUUCUACC GGGCACUGUA AAUGUCCGAC
UAUGGUC

mu: 0 mean energy: -15.9713 variance: 21.5588

lowest: -21.961502 most probable(7.203%): -21.961502 best match: -15.755502

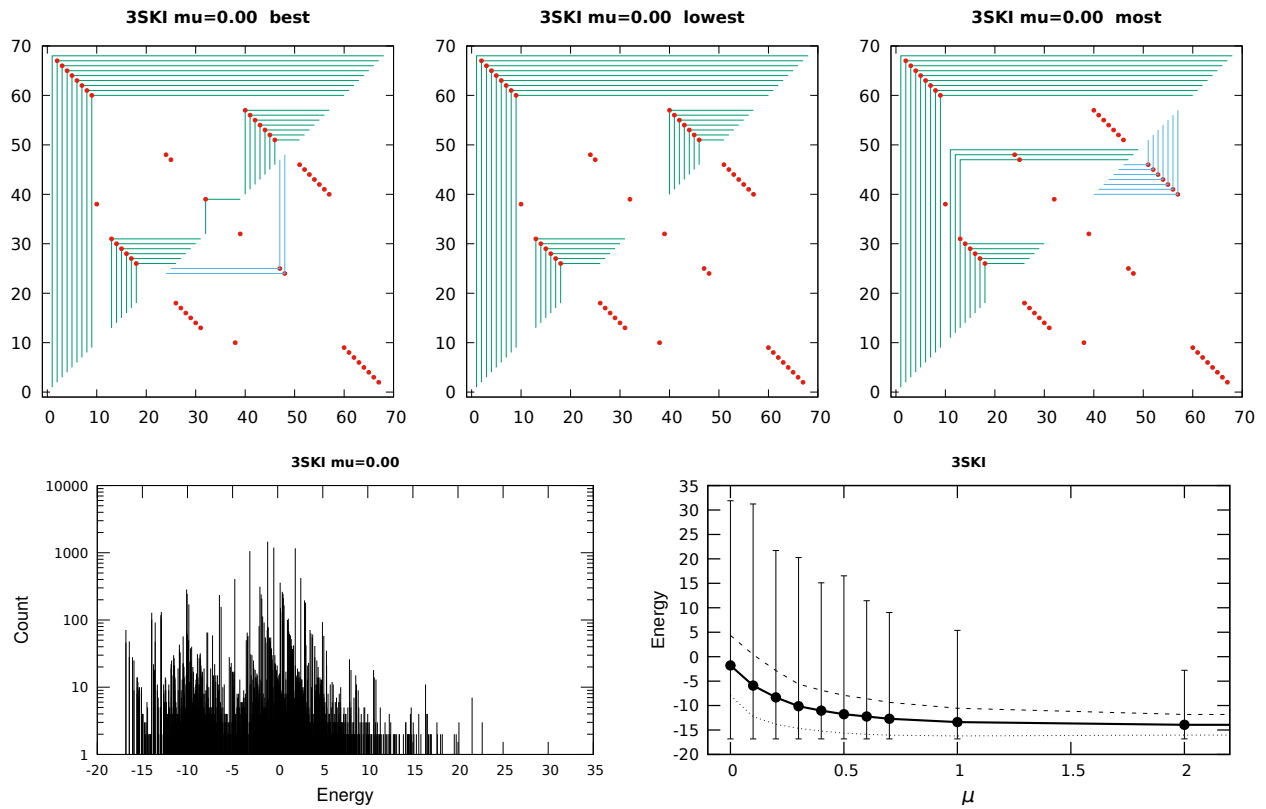


3SKI

GGCCUUAUAC AGGGUAGCAU AAUGGGCUAC UGACCCCGCC UUCAAAACCUA UUUGGAGACU
AUAAGGUC

mu: 0 mean energy: -1.79868 variance: 37.8153

lowest: -16.823775 most probable(4.873%): -1.108441 best match: -10.087420

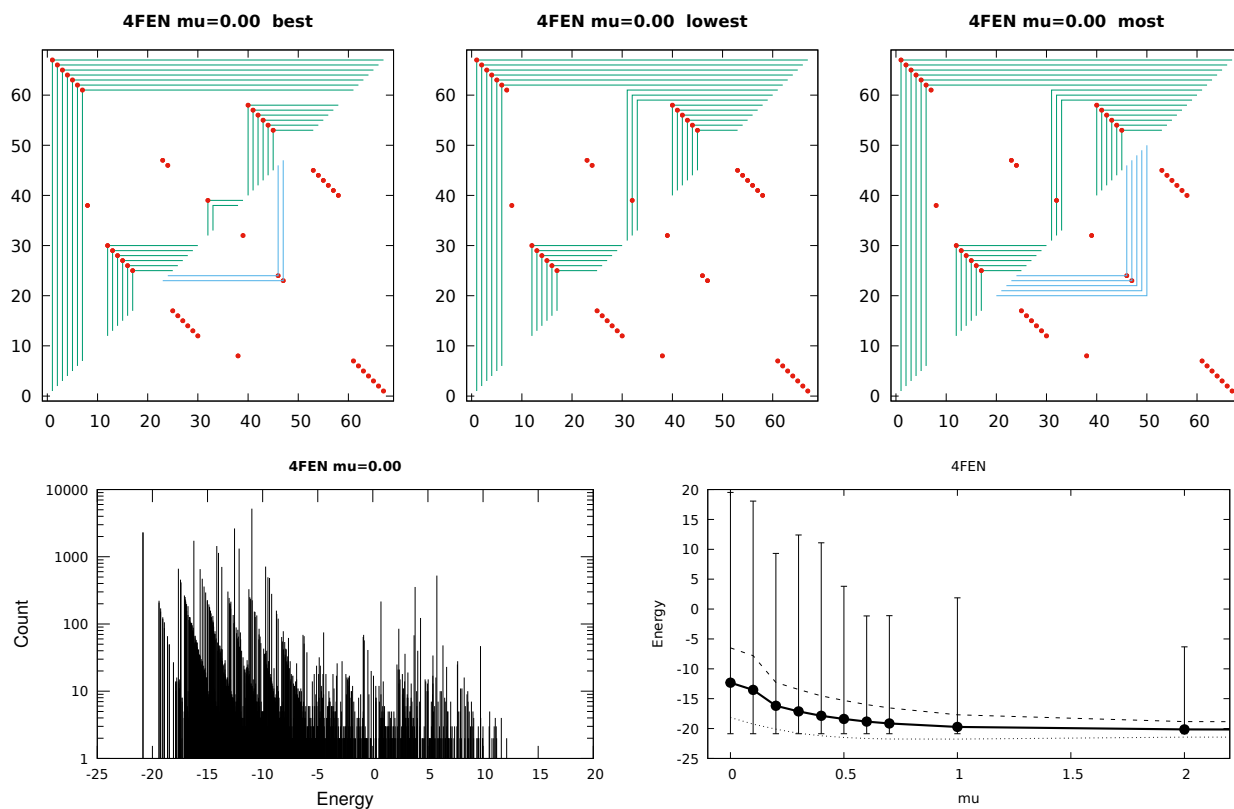


4FEN

GGACAUAAU AC GCGUGGAU AUGGCACGCG AGUUUCUACC GGGCACCGUA AAUGUCCGAC
UAUGUCC

mu: 0 mean energy: -12.3195 variance: 33.9275

lowest: -20.857335 most probable(8.653%): -10.977335 best match: -13.850501

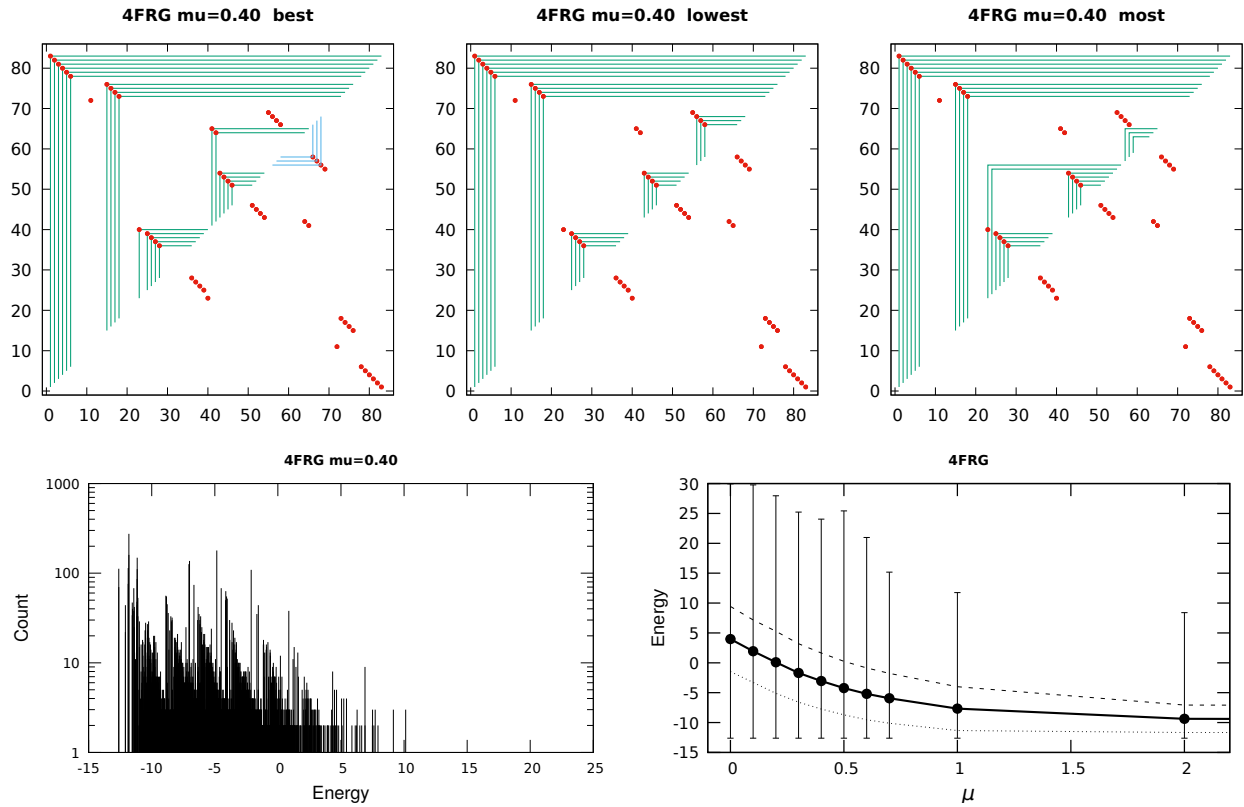


4FRG

GGCCUAAAAG CAUAGUGGGA AAGUGACGUG AAUUCGUCC AGAUGCGAAA GCAUACGGUU
AUACUCCGAA UGCCACCUAG GCCA

mu: 0.4 mean energy: -3.04665 variance: 22.034

lowest: -12.612320 most probable(0.688%): -11.808419 best match: -1.331193

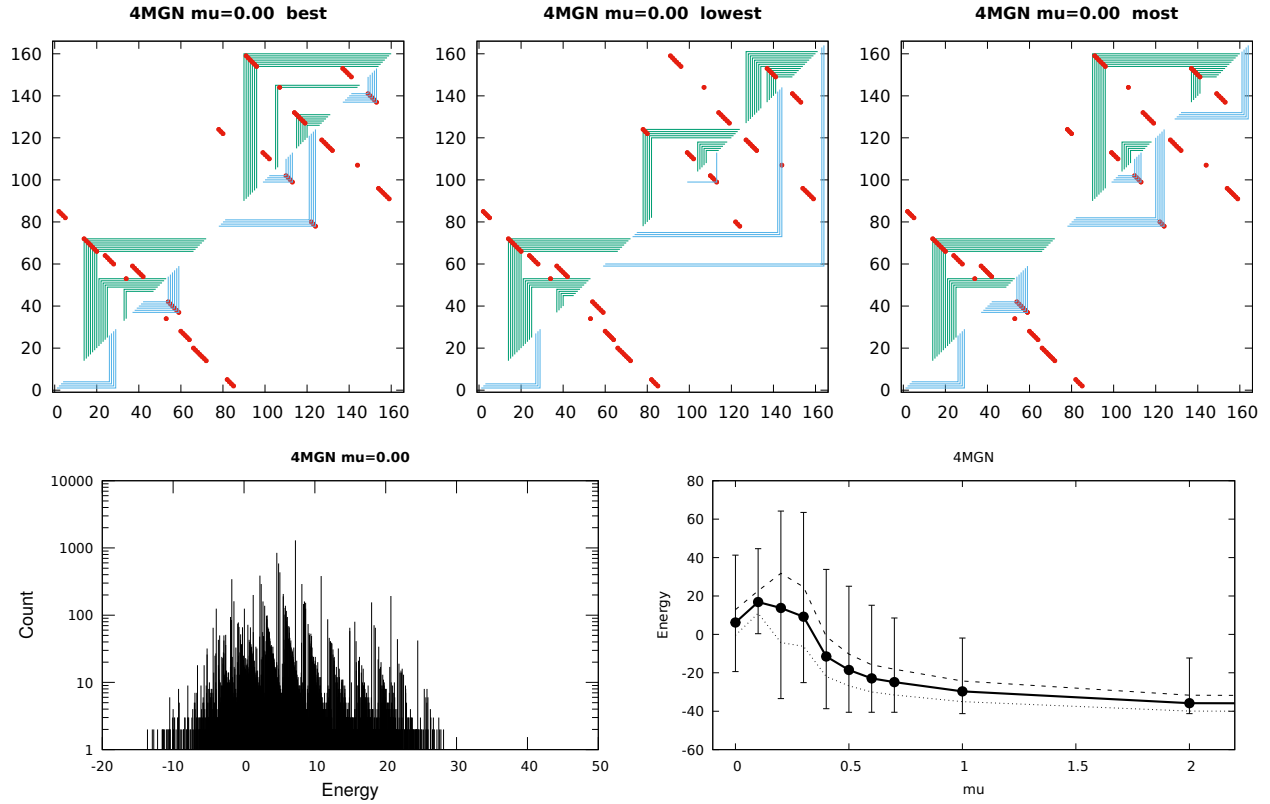


4MGN

GGAAUCAAUA GUAGUUAACC CUCUCUCCG AAGCGAGCCG GGGGCGGUGG GAGCCCGGUG
AAGACGGUUA AUGAAACGGC AGUCCXXXG CGGAAGUAGU UCAGUGGUAG AACACCACCU
UGCCAAGGUG GGGGUCGCGG GUUCGAGUCC CGUCUCCGC UCCA

mu: 0 mean energy: 6.19148 variance: 44.7294

lowest: -19.352838 most probable(2.160%): 7.253979 best match: 6.299341

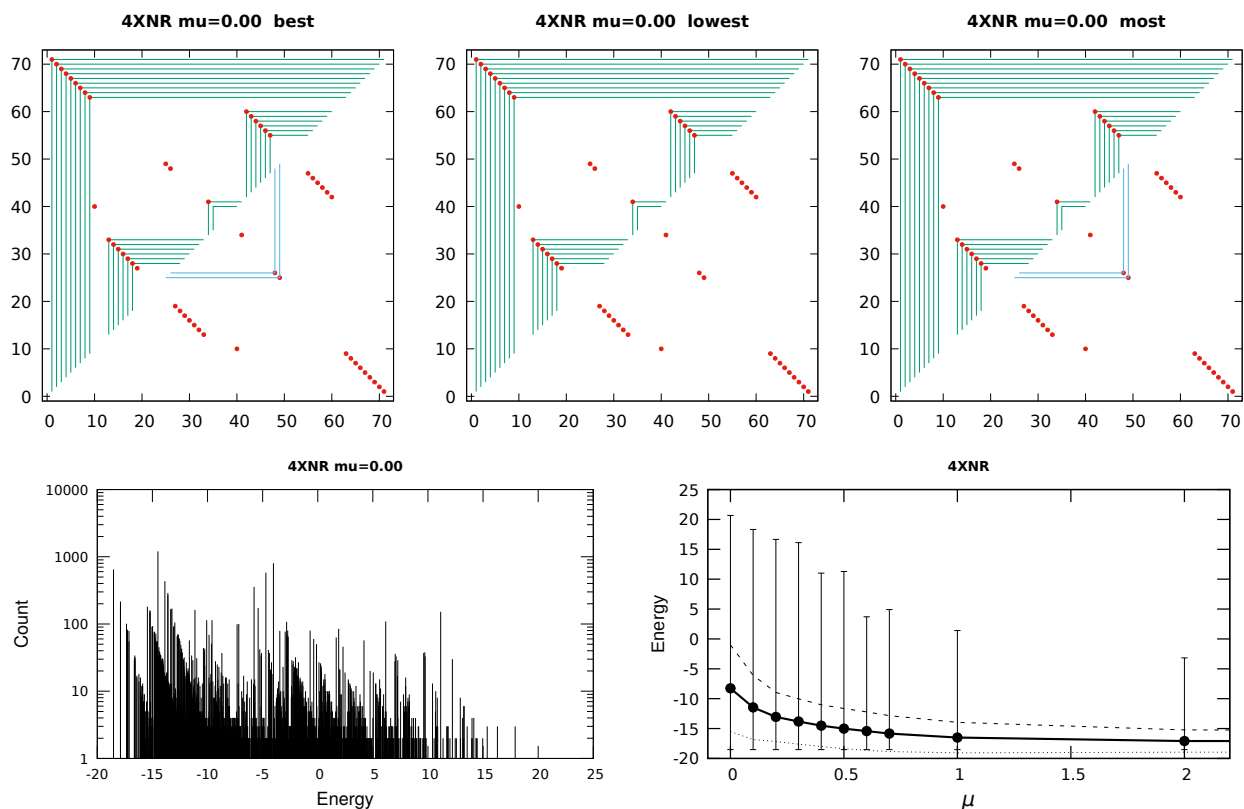


4XNR

GGGAAGAUAU AAUCCUAAUG AUAUGGUUUG GGAGUUUCUA CCAAGAGCCU UAAACUCUUG
AUUAUCUUC C

mu: 0 mean energy: -8.25548 variance: 52.6594

lowest: -18.526335 most probable(4.010%): -14.494668 best match: -14.494668

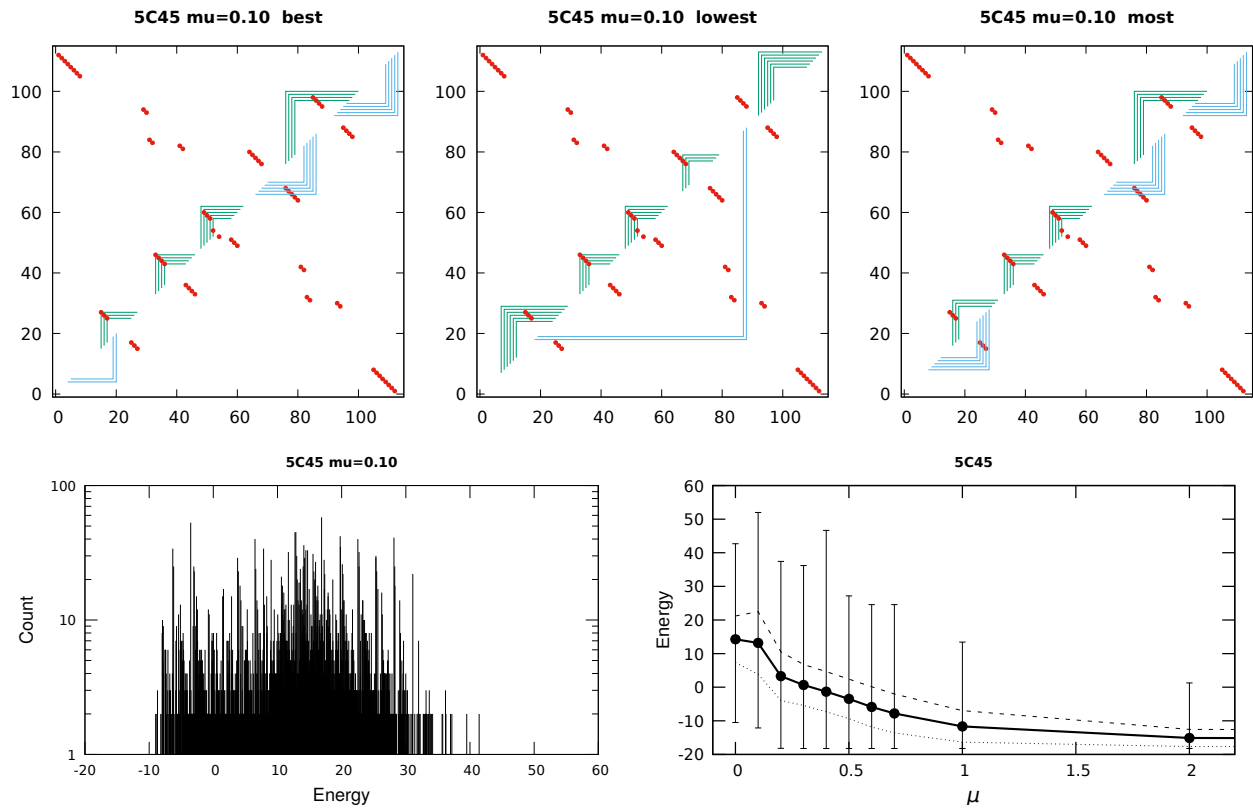


5C45

GGAUCUUCGG GGCAGGGUGA AAUCCCCGAC CGGUGGUAUA GUCCACGAAA GCUUXXGCU
 UUGAUUUGGU GAAAUUCCAA AACCGACAGU AGAGUCUGGA UGAGAGAAGA UUC

mu: 0.1 mean energy: 13.165 variance: 86.5086

lowest: -12.127224 most probable(0.145%): 16.876324 best match: 27.917247



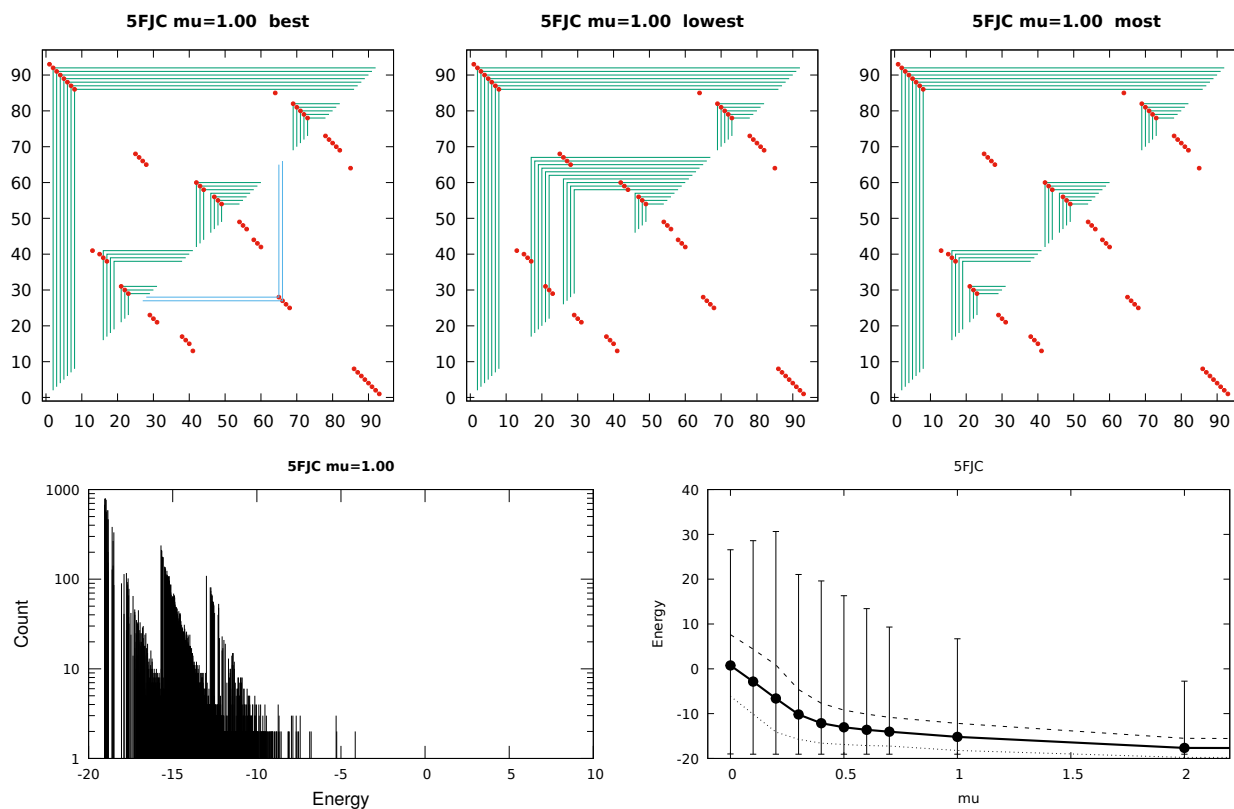
5FJC

XGCUUAUCAA GAGAGGGGGA GUGACUGGCG CGAAGAACCC CGGCAACCAG AAAUGGUGCC

AAUUCUGCA GCGGAAACGU UGAAAGAUGA GCCGX

mu: 1 mean energy: -15.1893 variance: 9.14512

lowest: -19.056857 most probable(1.995%): -18.998401 best match: -10.826258

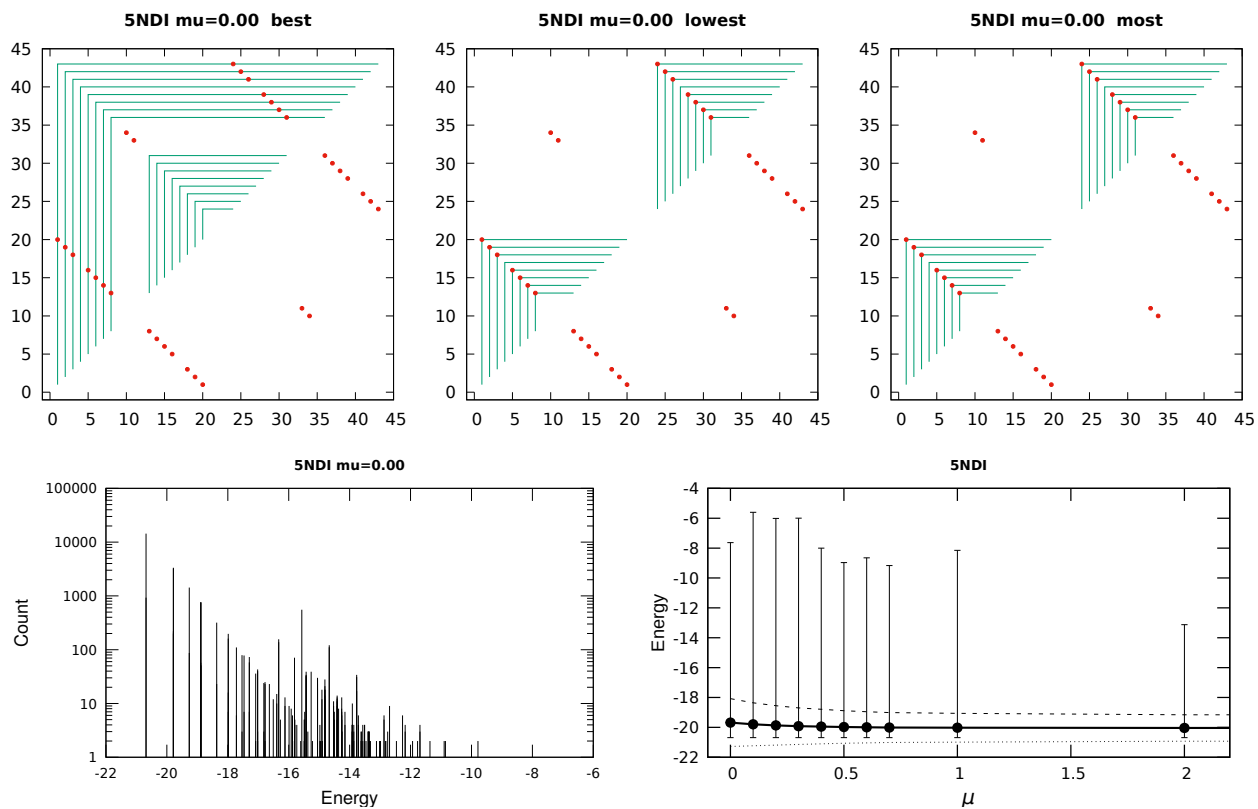


5NDI

UUUGCAGGAC GACCUGCAAA XXXUUUGCAG GACGACCUGC AAA

mu: 0 mean energy: -19.6782 variance: 2.55732

lowest: -20.684670 most probable(47.943%): -20.684670 best match: -19.264669

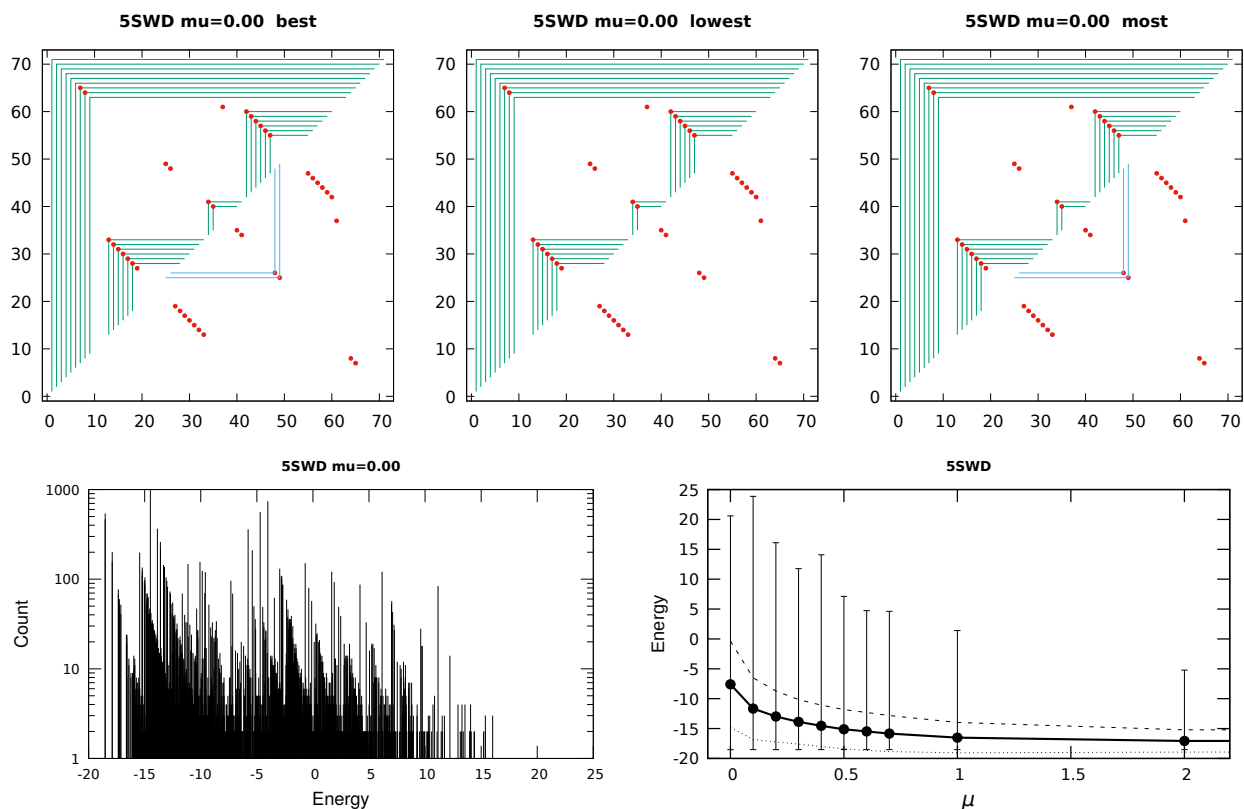


5SWD

GGGAAGAUAU AAUCCUAAUG AUAUGGUUUG GGAGUUUCUA CCAAGAGCCU UAAACUCUUG
AUUAUCUUC C

mu: 0 mean energy: -7.59365 variance: 52.3508

lowest: -18.526335 most probable(3.323%): -14.494668 best match: 1.022557

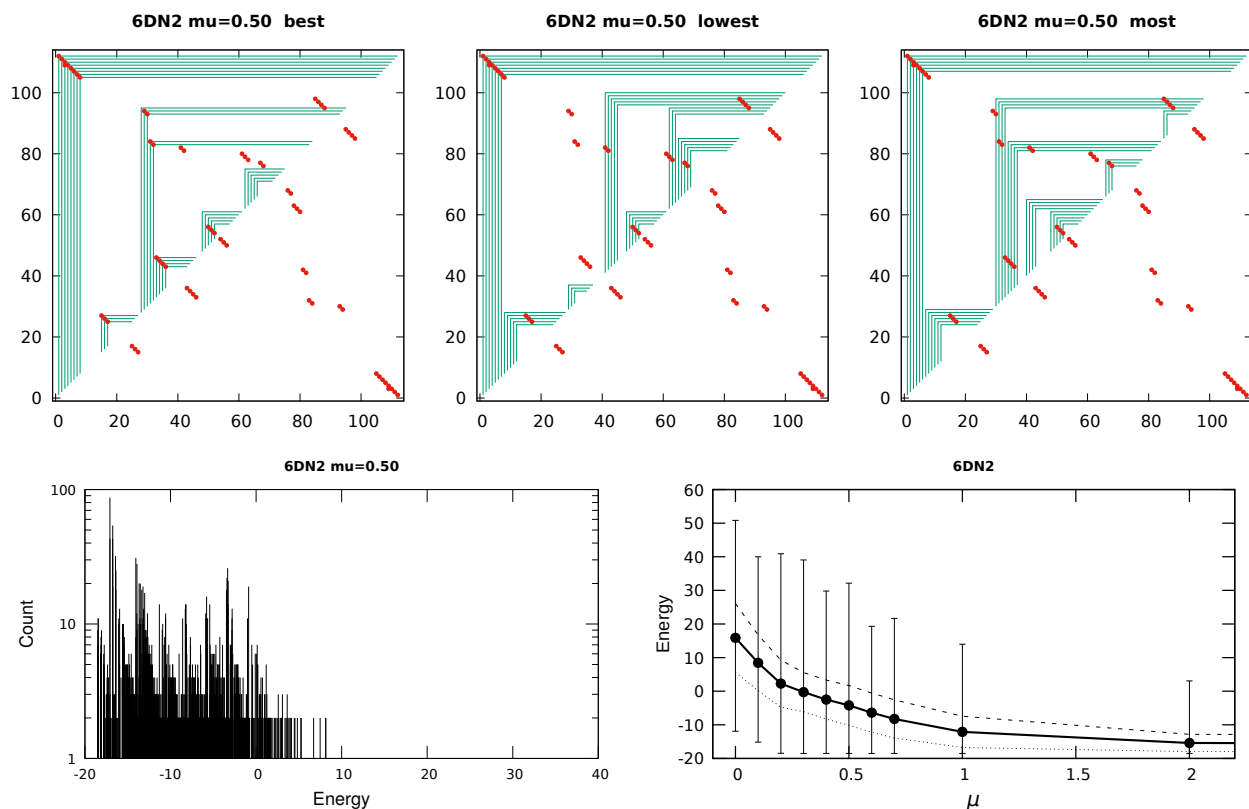


6DN2

GGAUCUUCGG GGCAGGGUGA AAUCCCCGAC CGGUGGUUAU GUCCACGAAA GCUUXXGCUU
UGAUUUGGUG AAUUCCAAA ACCGACAGUA GAGUCUGGAU GAGAGAAGAU UC

mu: 0.5 mean energy: -4.21163 variance: 34.804

lowest: -18.516751 most probable(0.217%): -17.085002 best match: -11.261500

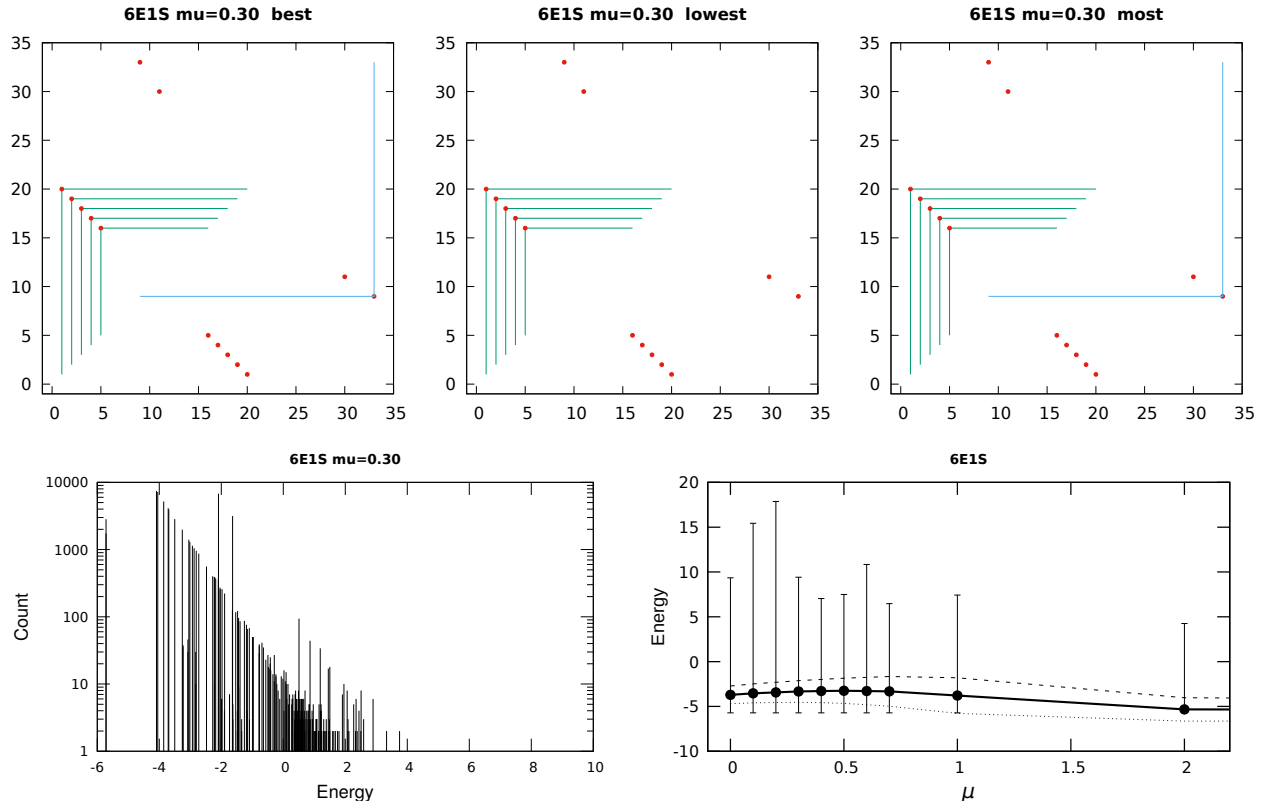


6E1S

CUGGGUCGCA GUNNCCCCAG UUAACAAAAC AAG

mu: 0.3 mean energy: -3.33209 variance: 1.45569

lowest: -5.716835 most probable(12.435%): -4.090668 best match: -4.090668



6VMY

XGUCAAAUAG GUGCCGGUCC GUGAACAAACA GCCGGCUUAA AAGGGAAACC GGUAAAAGCC
 GGUGCGGUCC CGCCACUGUA AUUGGCCAAG CGCCAAGAGC CAGGAUACCU GCCUGUUUGA
 UCAGCACGAA UUCUGCGAGG ACAGAUGA

mu: 2 mean energy: -33.9574 variance: 13.6836

lowest: -39.002254 most probable(1.680%): -38.644153 best match: -35.733087

