

## **Supplemental Data Set S5**

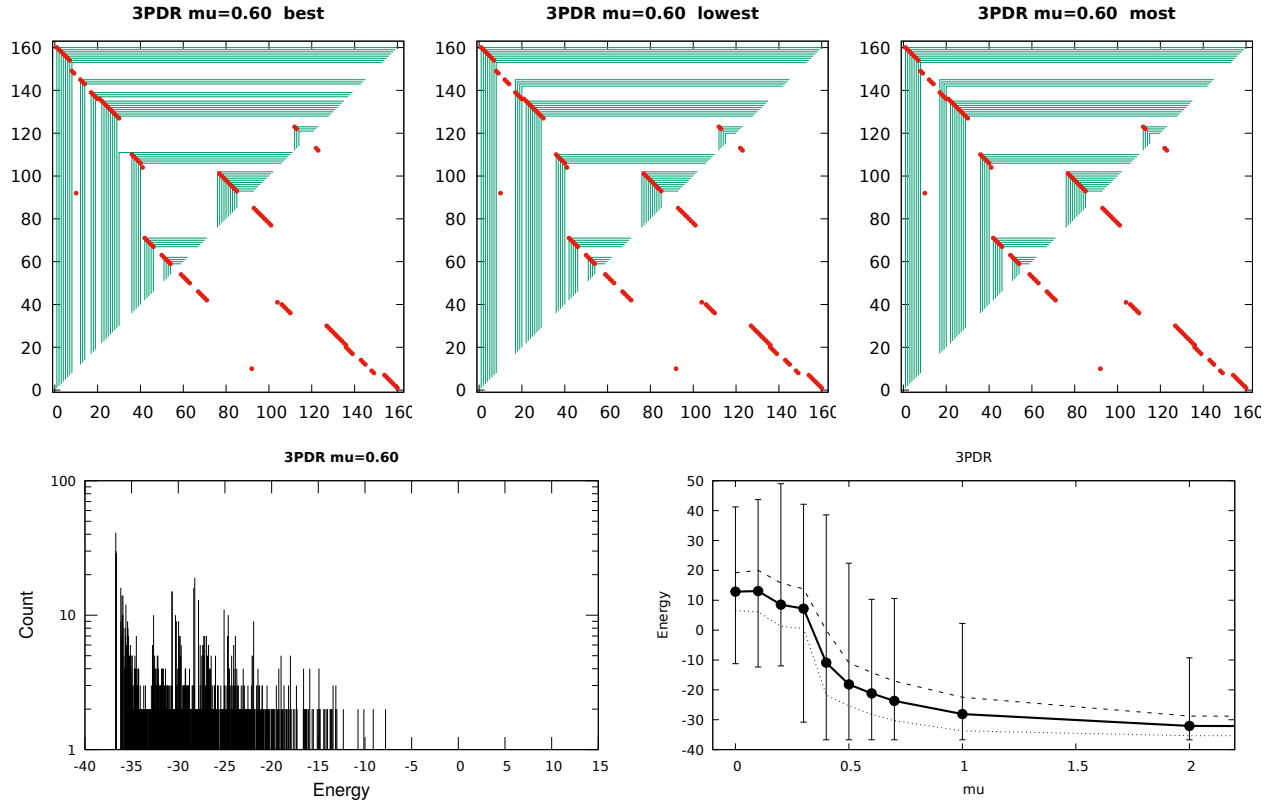
Fold prediction data for the second one-third of the target sequences in the Rfam test set in Table 6. All numerical values and three structures of relevance are included along with energy spectrum and ensemble energy profile as a function of the chemical potential.

## 3PDR

GGGCUUCGUU AGGUGAGGCU CCUGUAUGGA GAUACGCUGC UGCCCCAAAA UGUCCAAAGA  
CGCCAAUGGG UCAACAGAAA UCAUCGACAU AAGGUGAUUU UAAUUGCAGC UGGAUGCUUG  
UCCUAUGCCA UACAGUGCUA AAGCUCUACG AUUGAAGCCC A

mu: 0.6 mean energy: -21.1672 variance: 48.7875

lowest: -36.698561 most probable(0.103%): -36.698561 best match: -30.092338

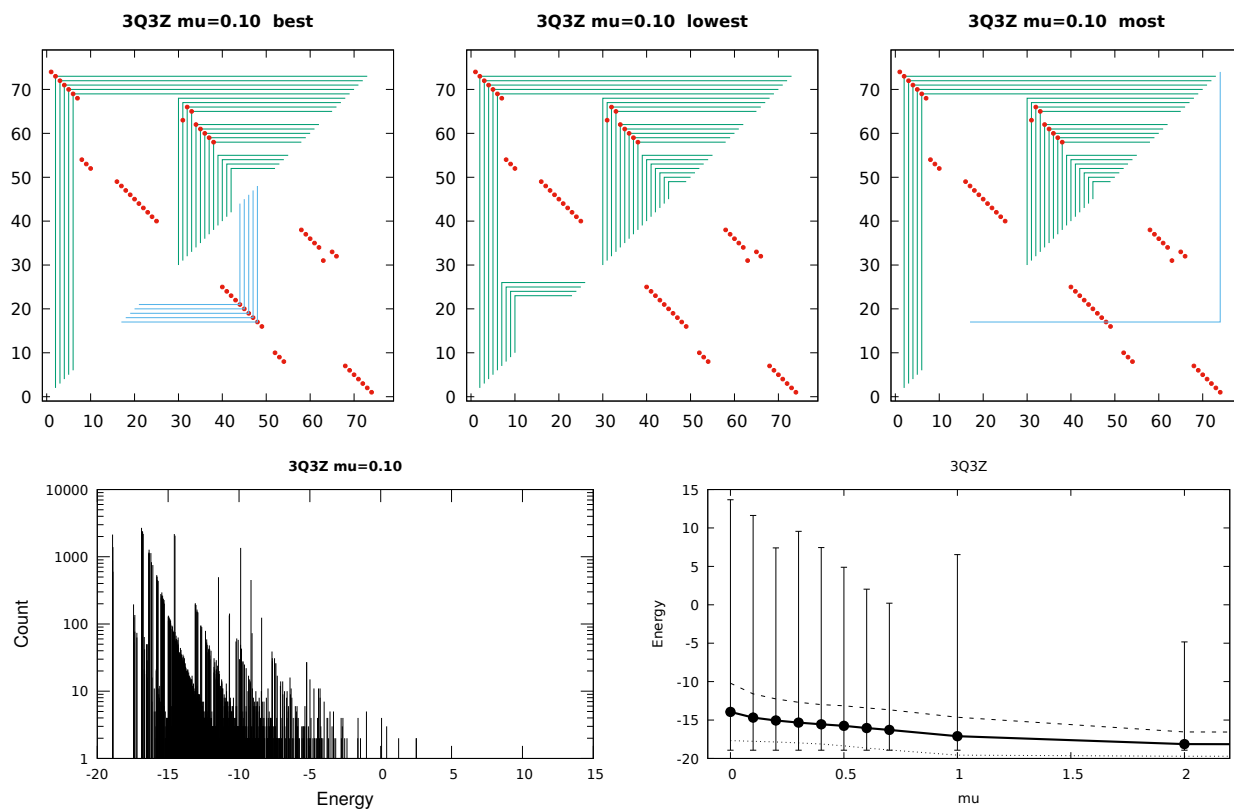


# 3Q3Z

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

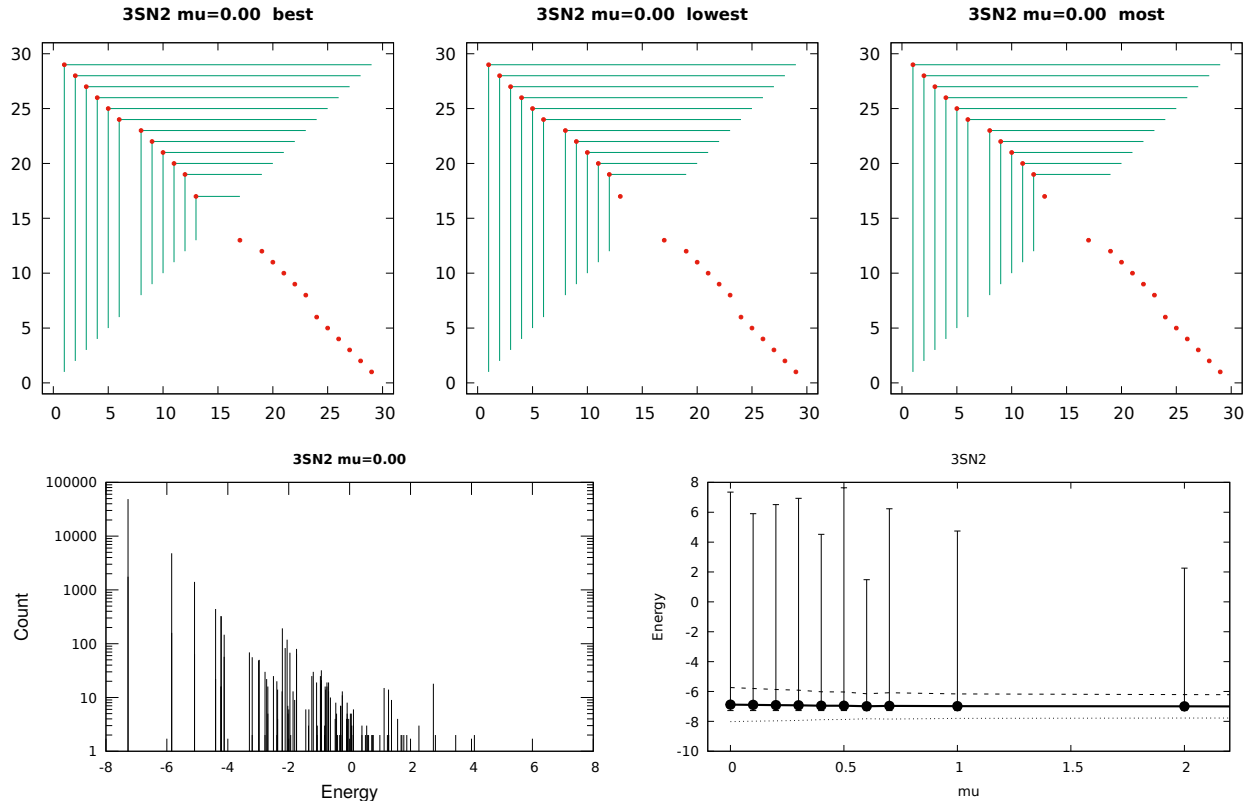


# 3SN2

GAUUAUCGGA AGCAGUGCCU UCCAUAUAUC

mu: 0 mean energy: -6.87825 variance: 1.30015

lowest: -7.275167 most probable(81.387%): -7.275167 best match: -5.091666

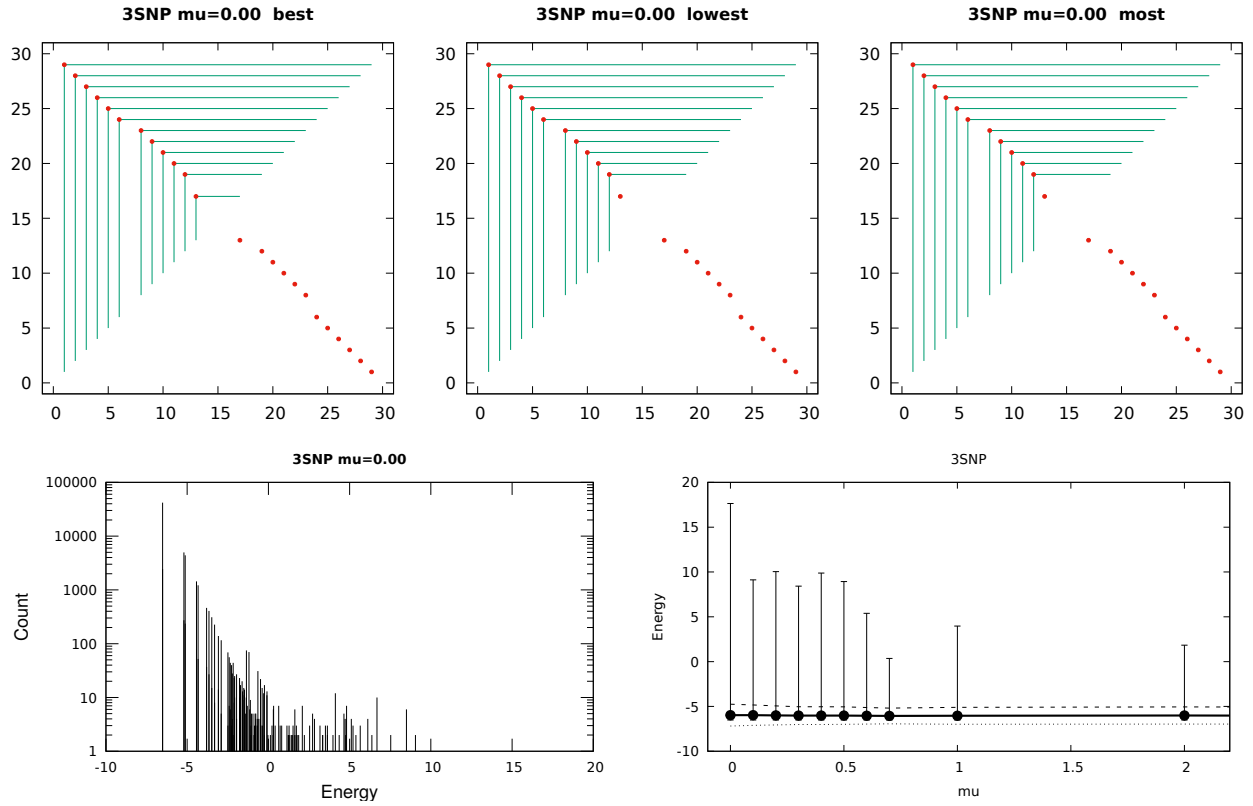


# 3SNP

GUUCUGCUUC AACAGUGUUU GAACGGAAC

mu: 0 mean energy: -5.96879 variance: 1.47995

lowest: -6.511000 most probable(69.762%): -6.511000 best match: -4.327499

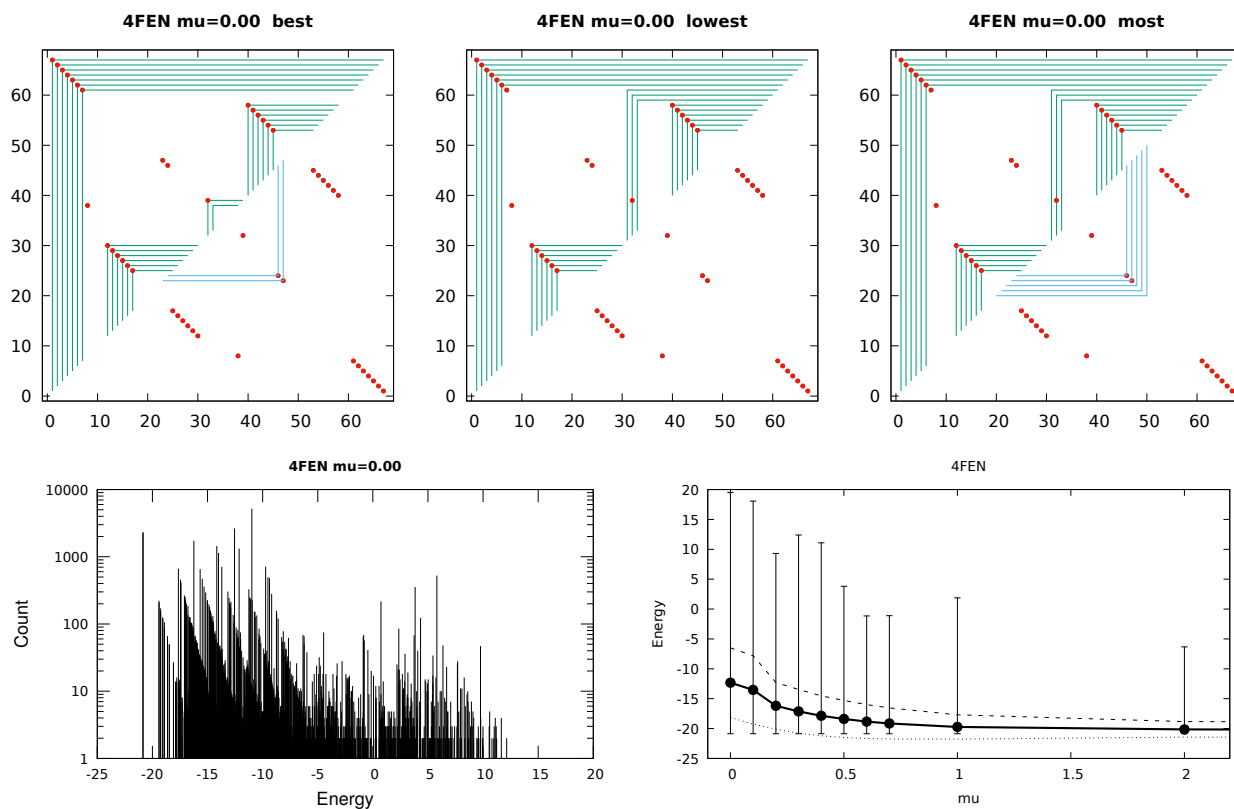


# 4FEN

GGACAUAAU ACGCGUGGAU 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

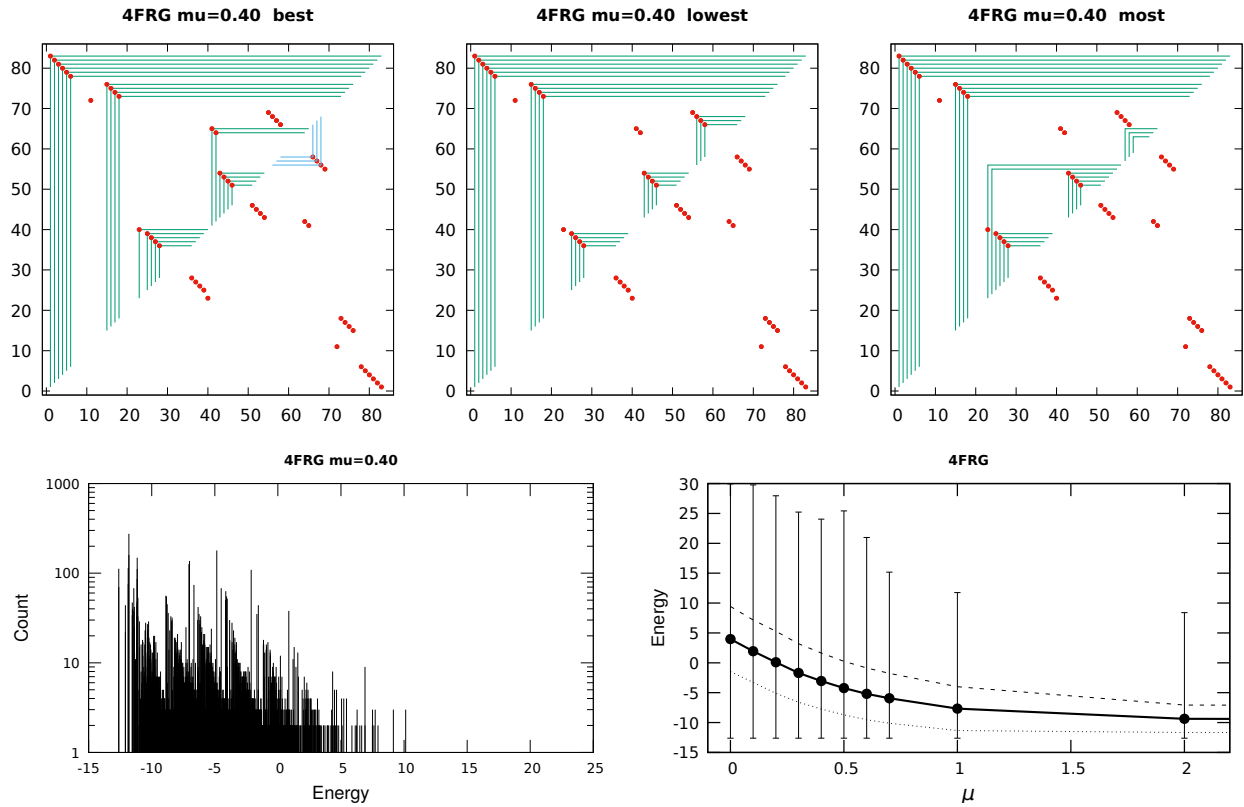


## 4FRG

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

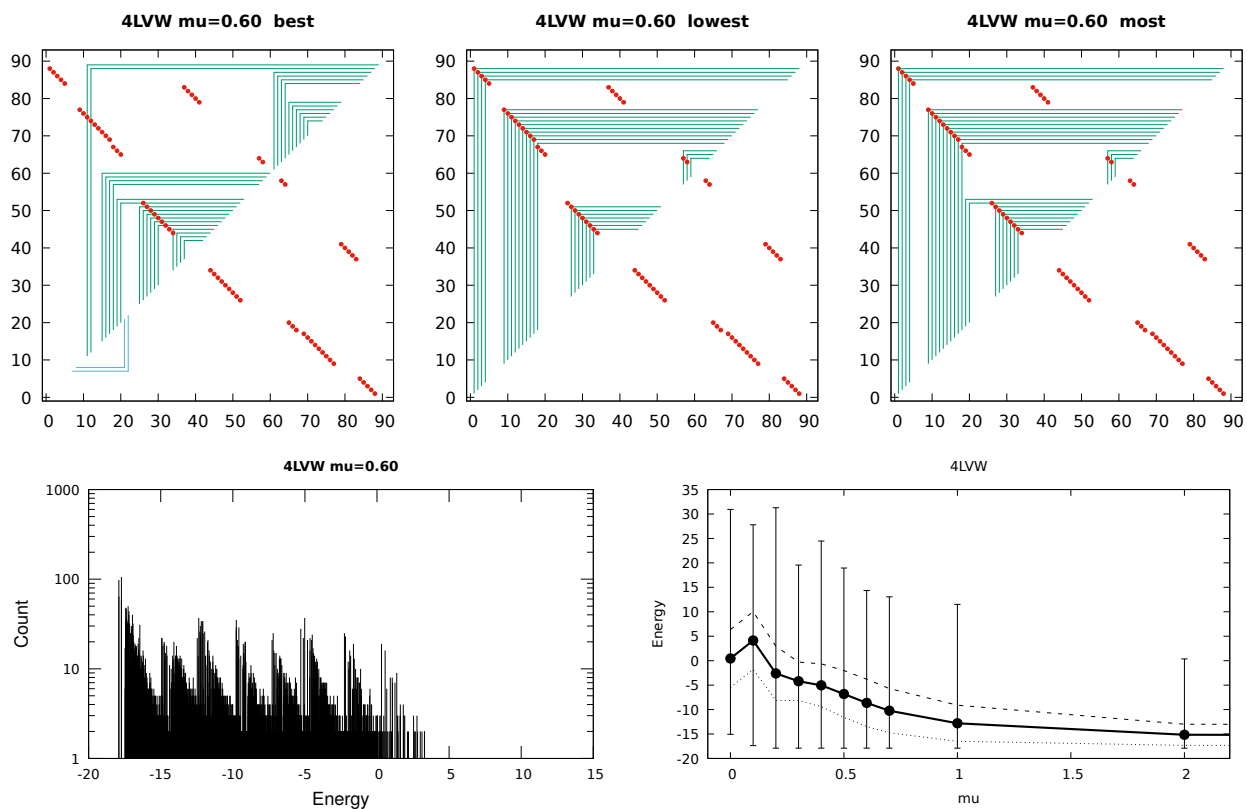


# 4LVW

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

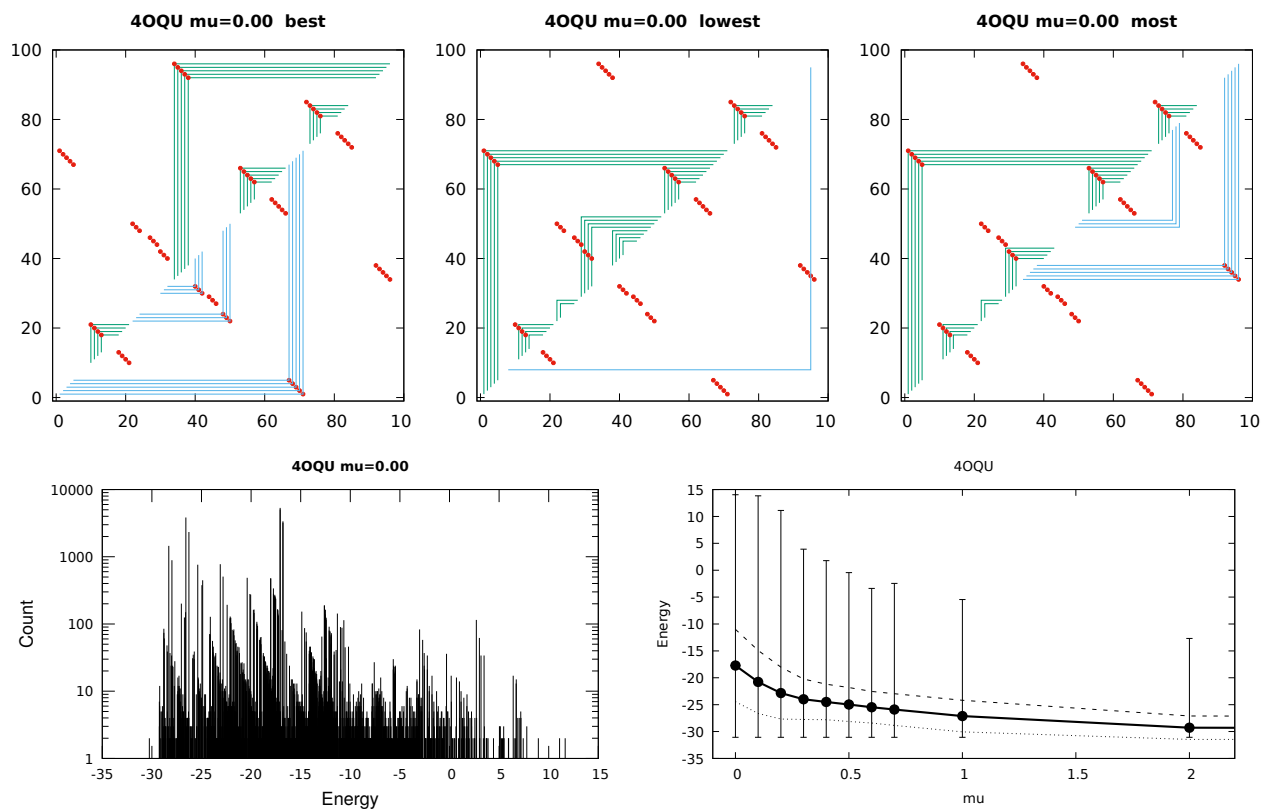


# 40QU

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

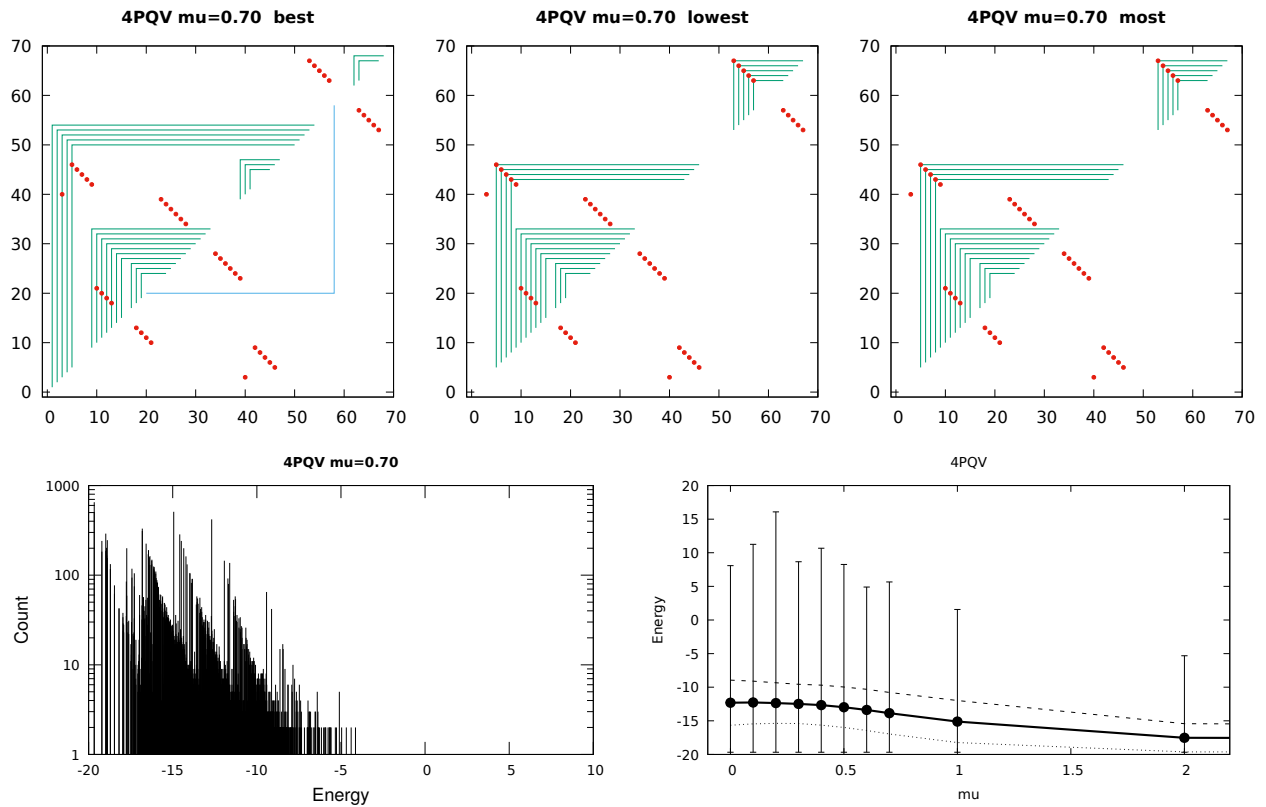


# 4PQV

GGGUCAGAUC GGCGAAAGUC GCCACUUCGC CGAGGAGUGC AAUCUGUGAG GCCCCAGGAG  
GACUGGGU

mu: 0.7 mean energy: -13.8646 variance: 9.55406

lowest: -19.666502 most probable(1.630%): -19.666502 best match: -8.885750



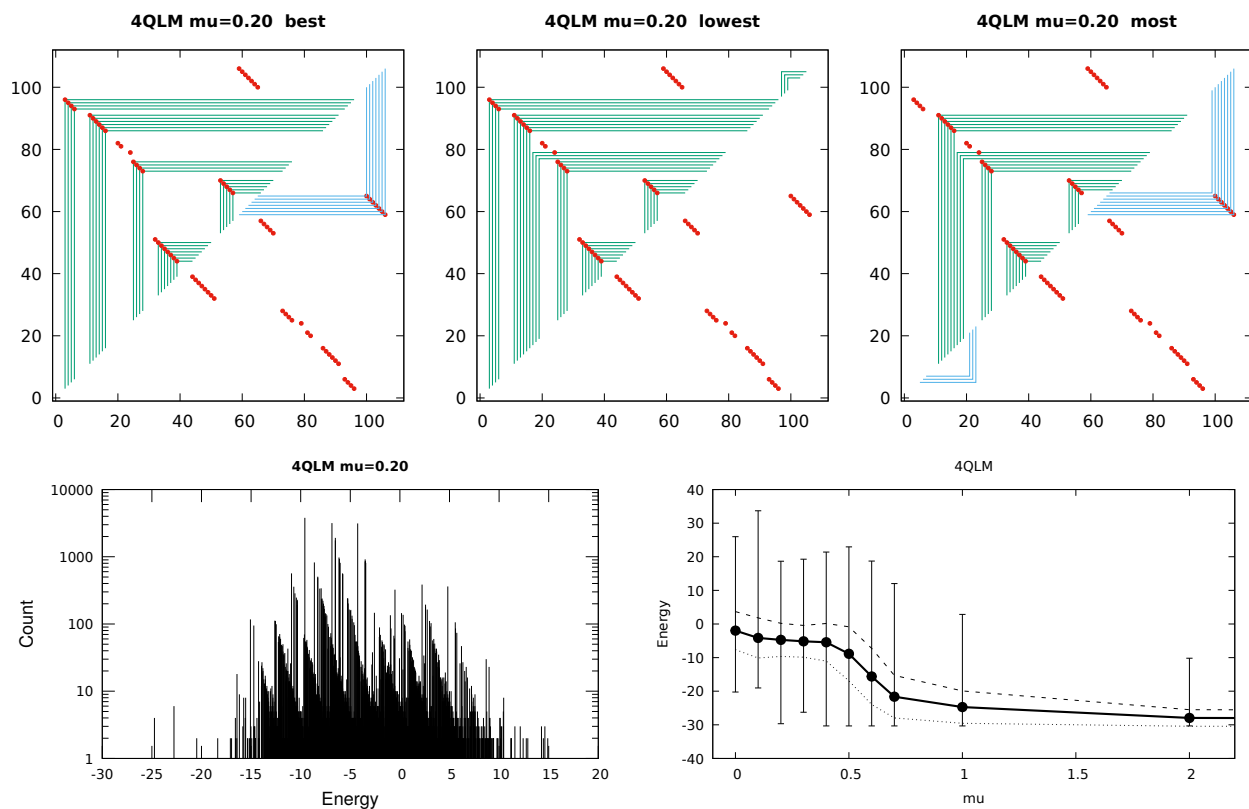
## 4QLM

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

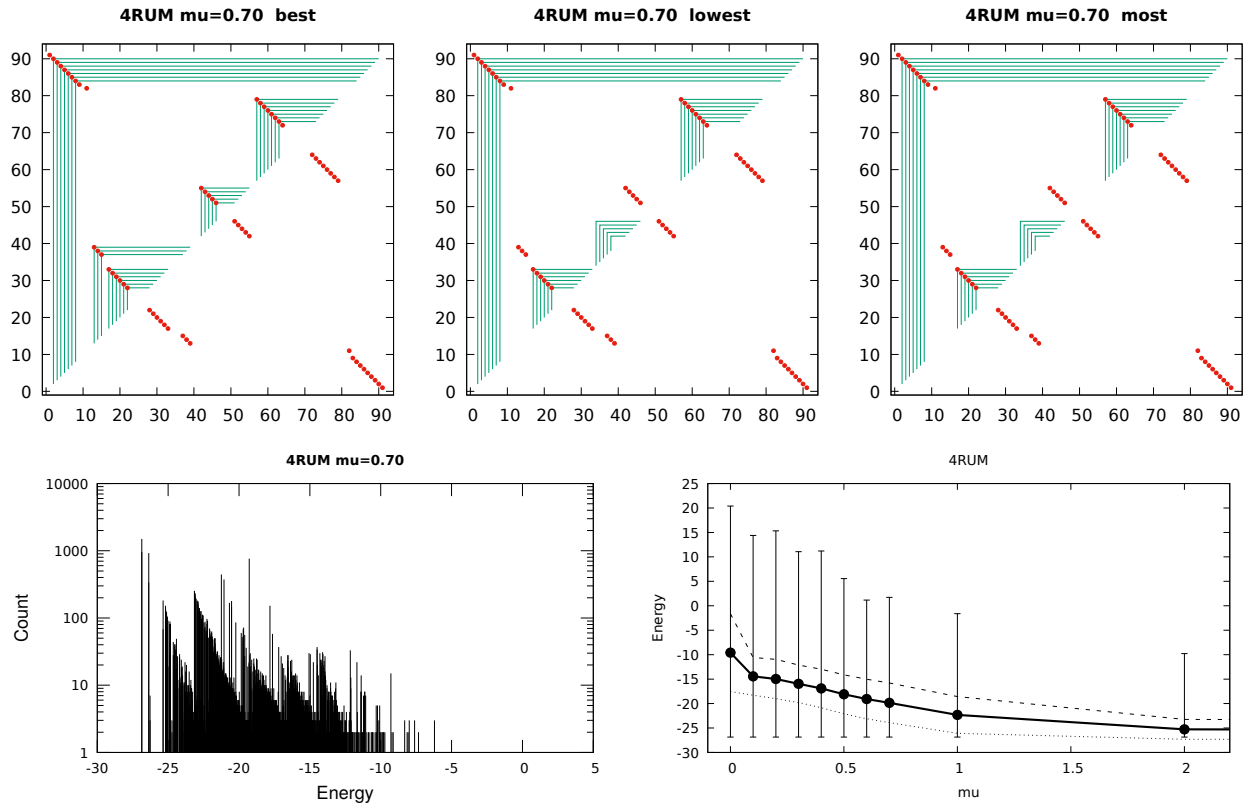


# 4RUM

XGGAACUGAG CAGGCAAUGA CCAGAGCGGU CAUGCAGCCG GGCUGCGAAA GCGGCAACAG  
AUGAUACACG CACAUCUGUG GGACAGUUC CA

mu: 0.7 mean energy: -19.849 variance: 16.4324

lowest: -26.856676 most probable(3.750%): -26.856676 best match: -14.400669

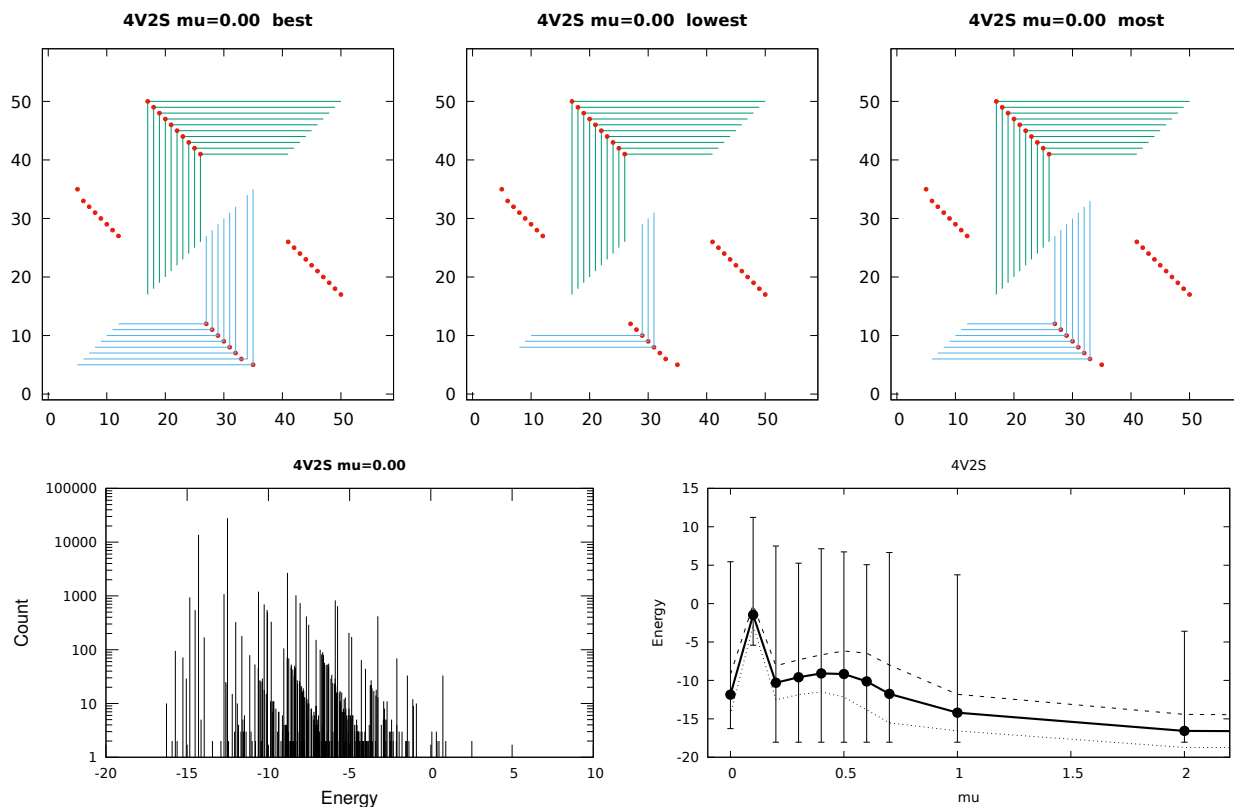


# 4V2S

AUGUAGACCC GUCCUUCGCC UGCGUCACGG GUCCUGGUUA GACGCAGGCG UUUUCUG

mu: 0 mean energy: -11.8564 variance: 6.88855

lowest: -16.271152 most probable(46.590%): -12.520676 best match: -3.398176



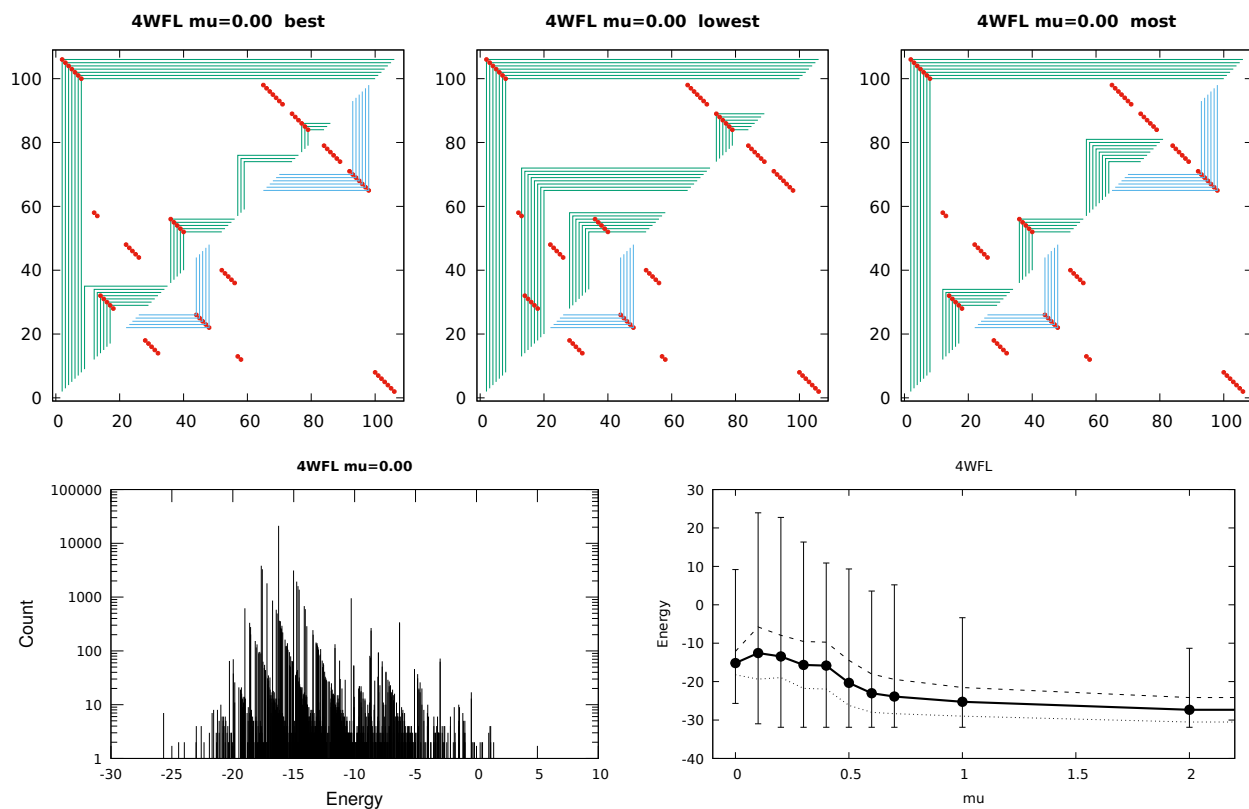
## 4WFL

XGCCGUGC UA AGCGGGGAGG UAGCGGUGCC CUGUACCUGC AAUCCGCUCU AGCAGGGCCG

AAUCCCUUCU CGAGGUUCGG UAACGAAUCG ACAGAAGGUG CACGGUX

mu: 0 mean energy: -15.1707 variance: 9.36735

lowest: -25.677626 most probable(35.222%): -16.236712 best match: -9.453703

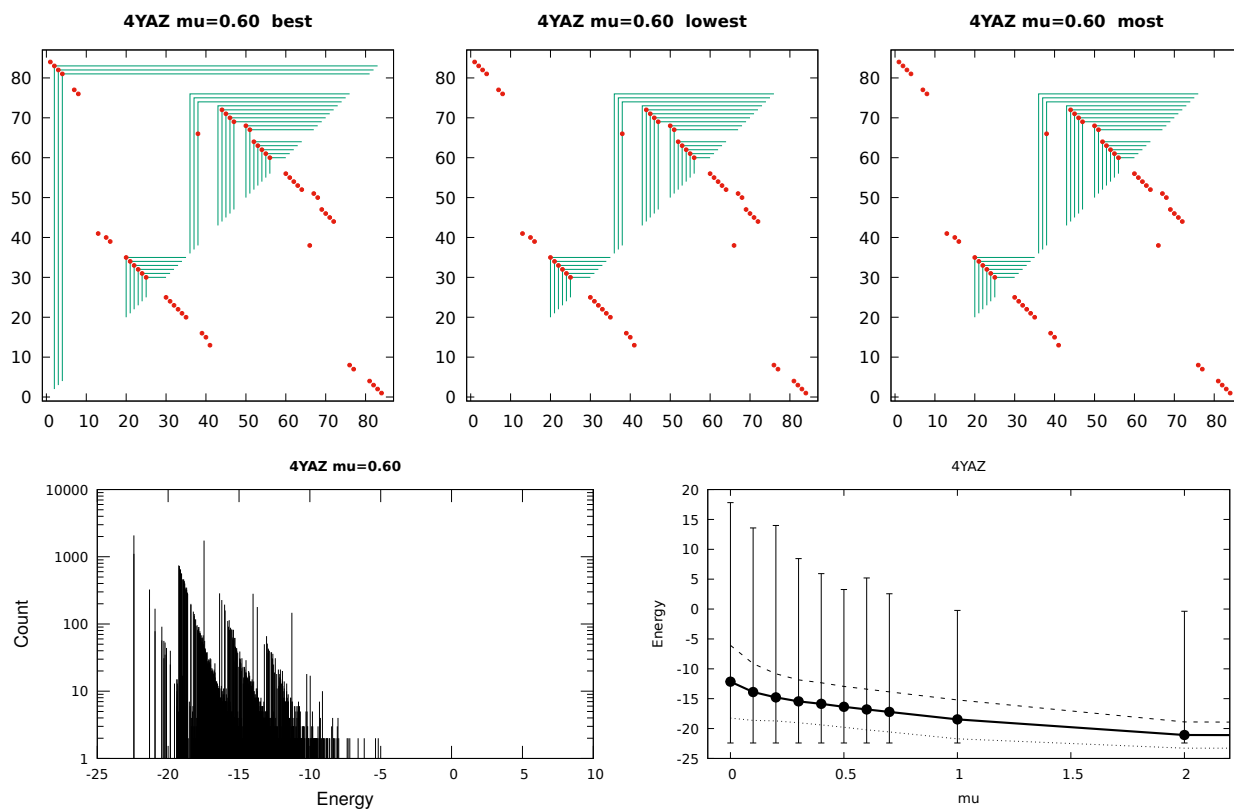


# 4YAZ

XGUACACGAC AAUACUAAAC CAUCCGCGAG GAUGGGGCGG AAAGCCUAAG GGUCUCCCUG  
AGACAGCCGG GCUGCCGAAA UAUCX

mu: 0.6 mean energy: -16.8046 variance: 11.5713

lowest: -22.414085 most probable(5.190%): -22.414085 best match: -18.147841



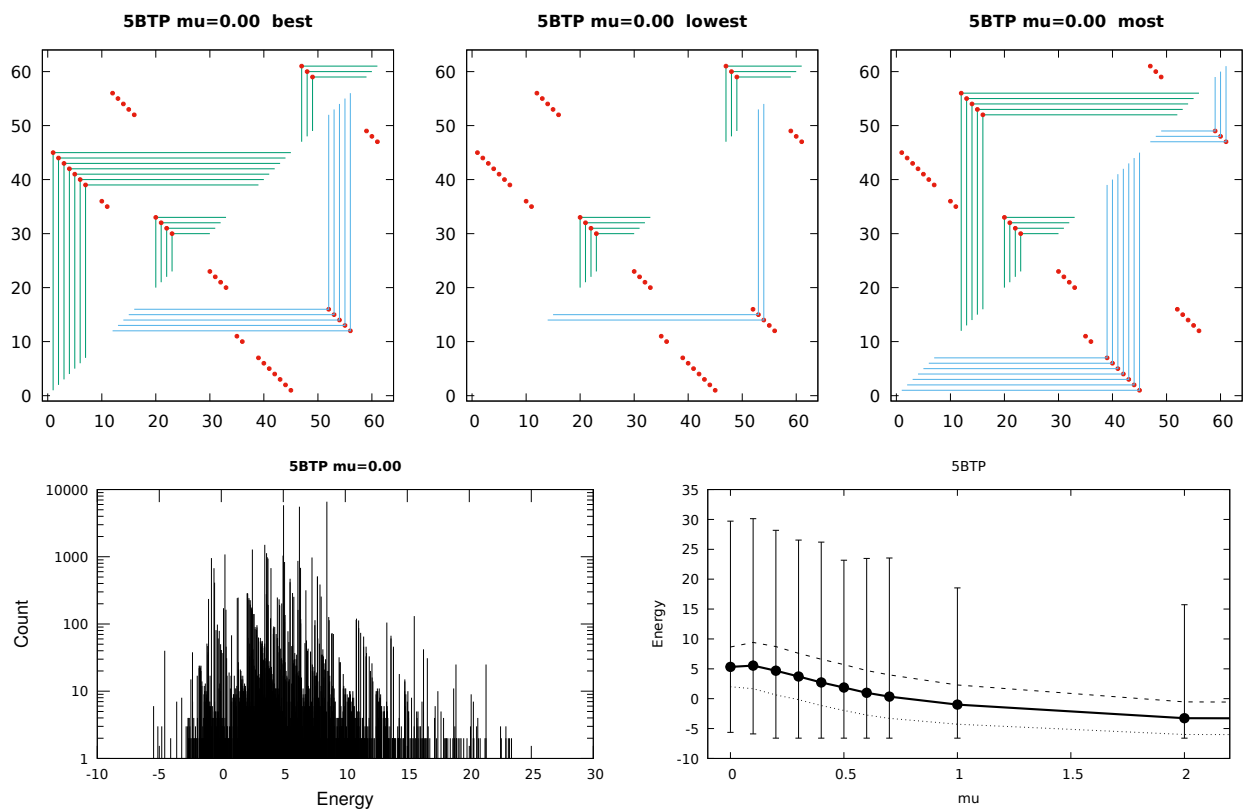
# 5BTP

GUUAUAUGAC UGACGGAACG UGGAUUUAAC 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

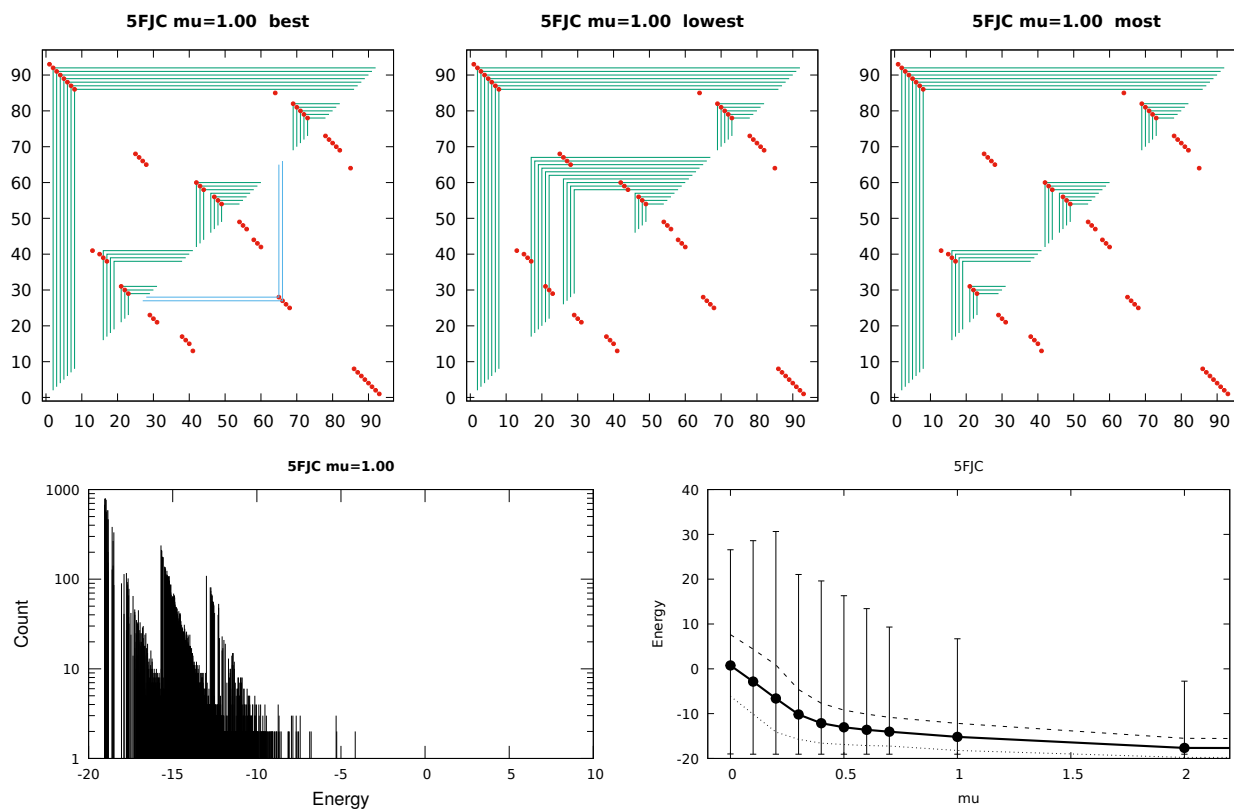


## 5FJC

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

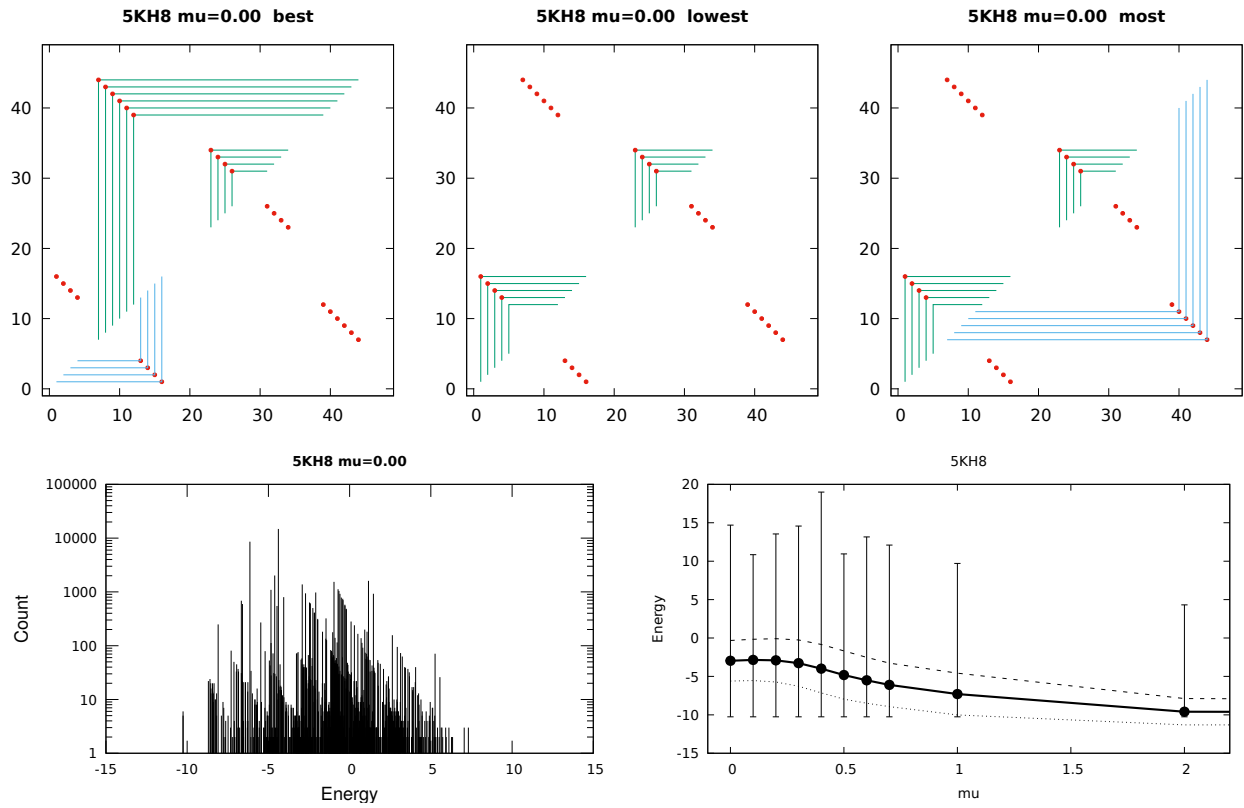


## 5KH8

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

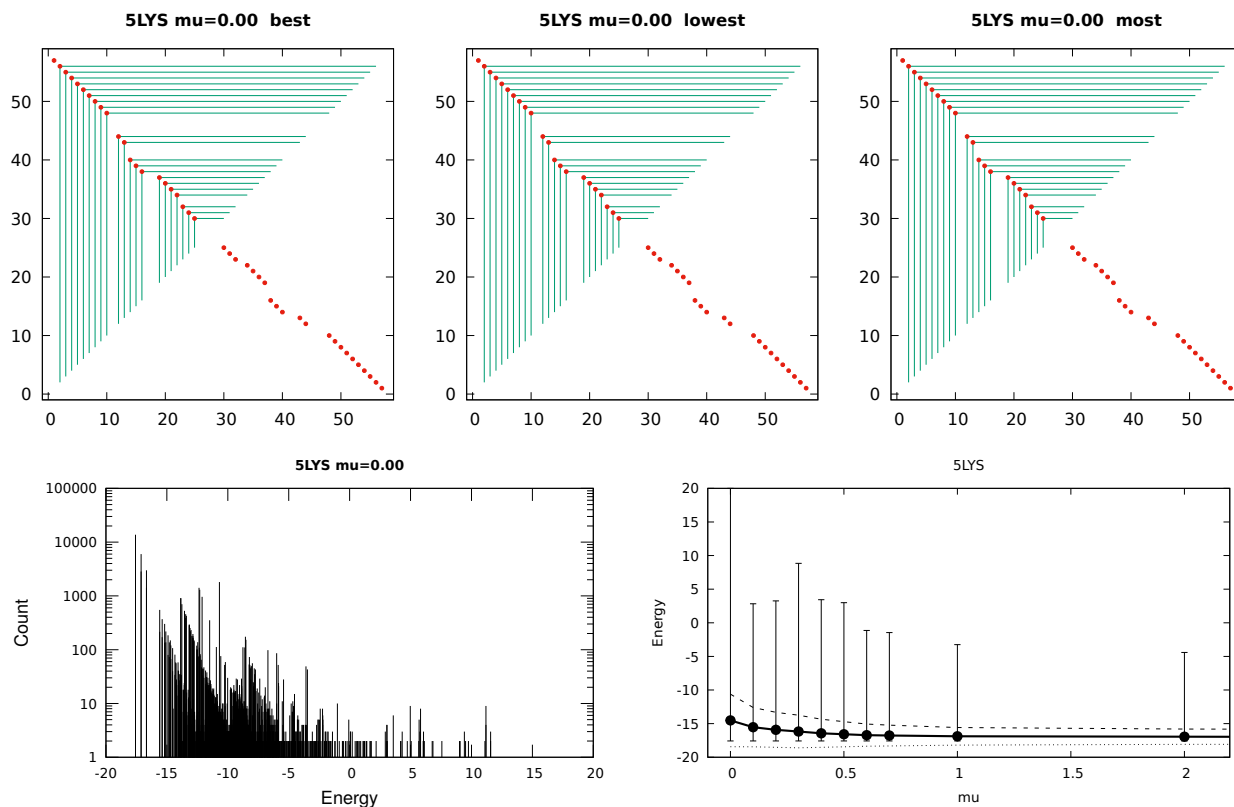


# 5LYS

GGGAUCUGUC ACCCCAUUGA UGCCCUCGG GCUGAUCUGG CUGGCUAGGC GGGUCCX

mu: 0 mean energy: -14.5216 variance: 15.3159

lowest: -17.575333 most probable(22.852%): -17.575333 best match: -17.575333

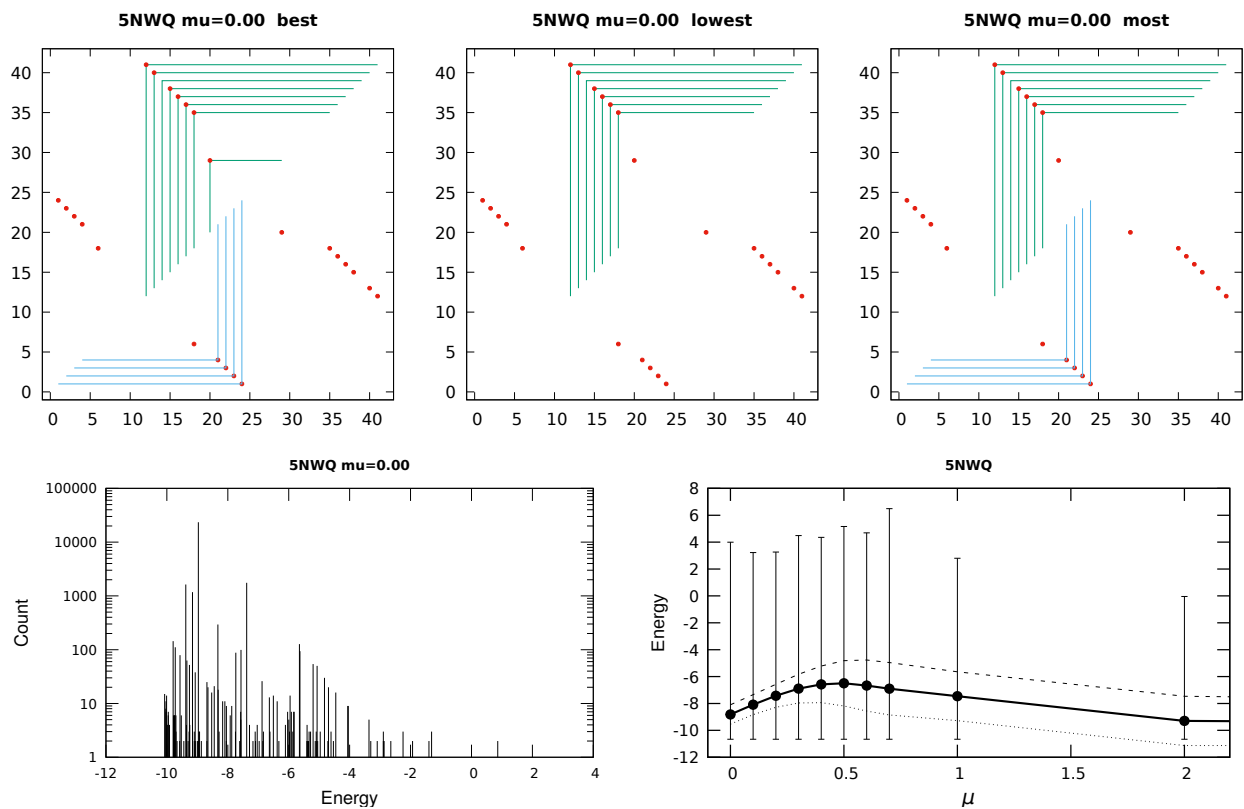


# 5NWQ

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



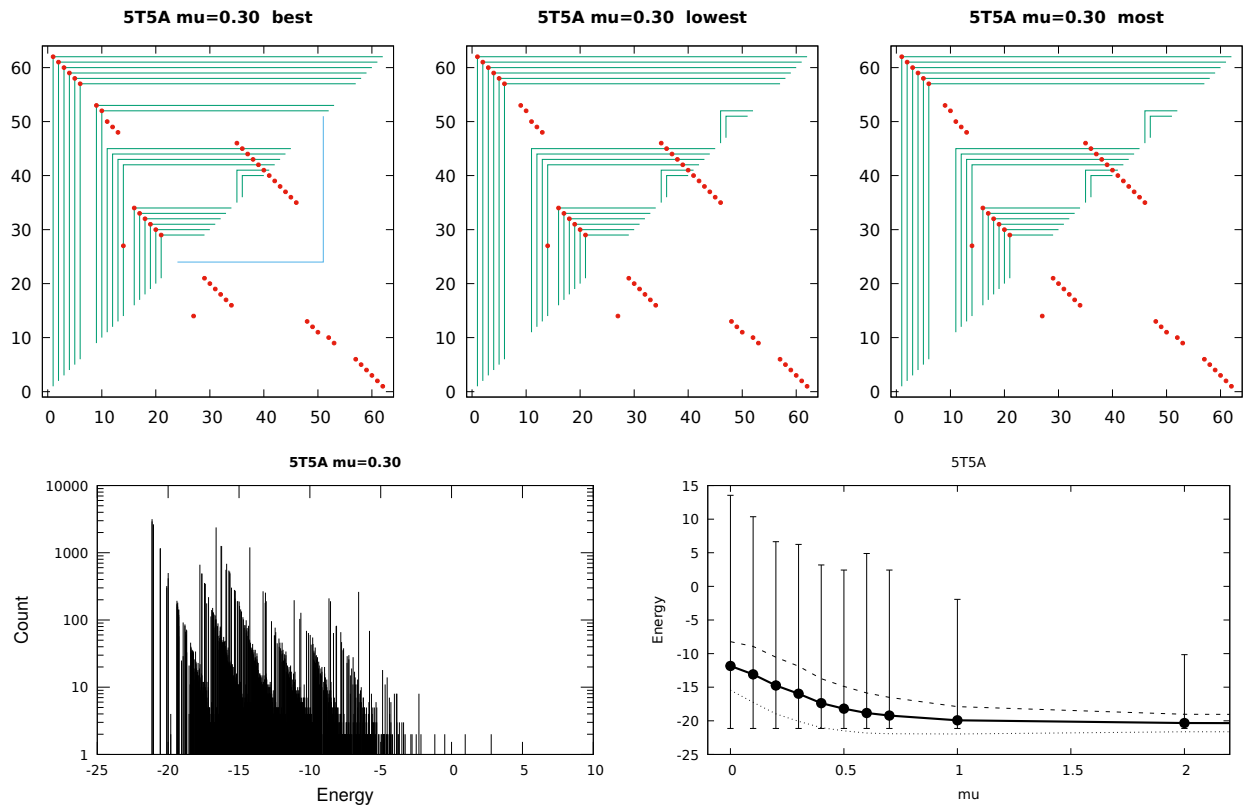
## 5T5A

GCAGGGCAAG GCCCAGUCCC GUGCAAGCCG GGACCGXXCC GGGGCGCGGC GCUXAUUCCU

GC

mu: 0.3 mean energy: -15.9698 variance: 16.8077

lowest: -21.136584 most probable(5.265%): -21.136584 best match: -4.168026

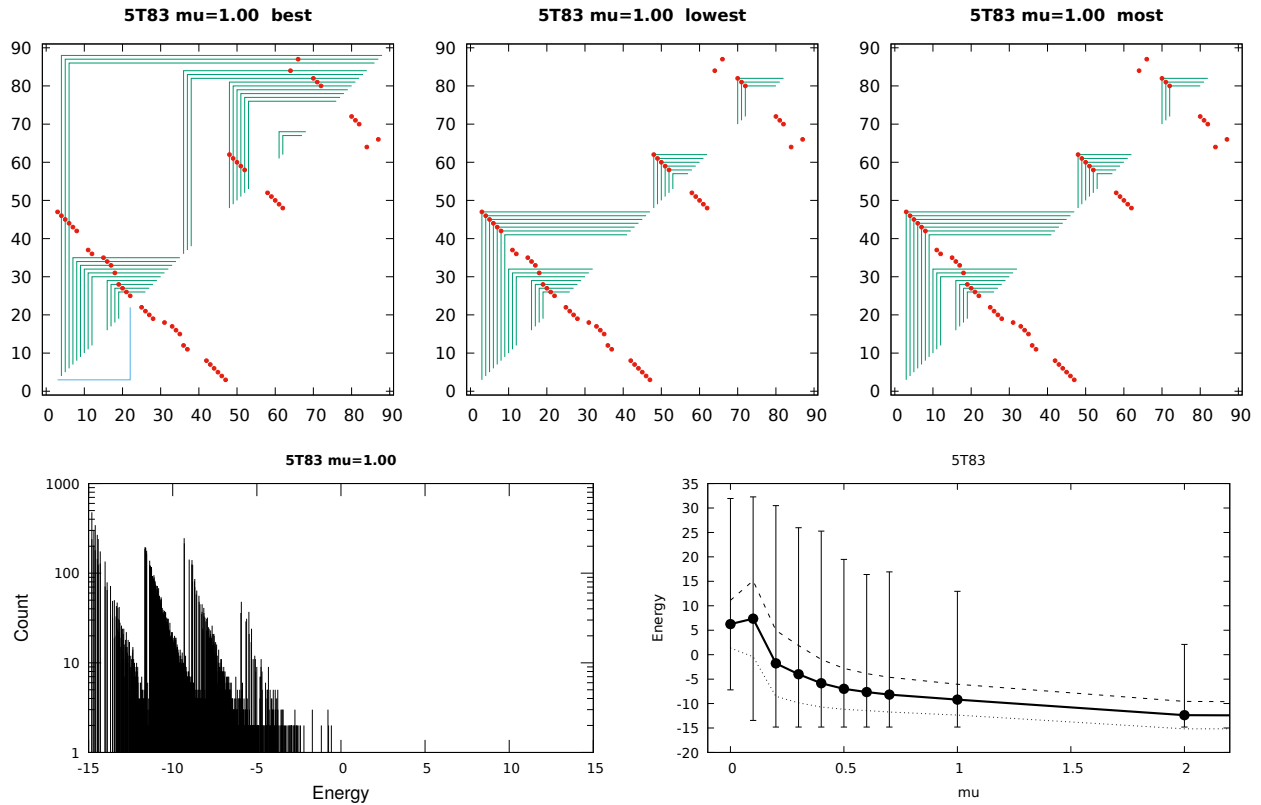


## 5T83

AAGUUUGCUA GGGUCCGCG UCAAGGUGGU CUGGUCCAAG AGCAAACGGC UUUCACAAAAG  
CCACACGGAA GGAUAAAAGC CUGGGAGAU

mu: 1 mean energy: -9.19915 variance: 9.93784

lowest: -14.805921 most probable(1.192%): -14.805921 best match: -3.208489

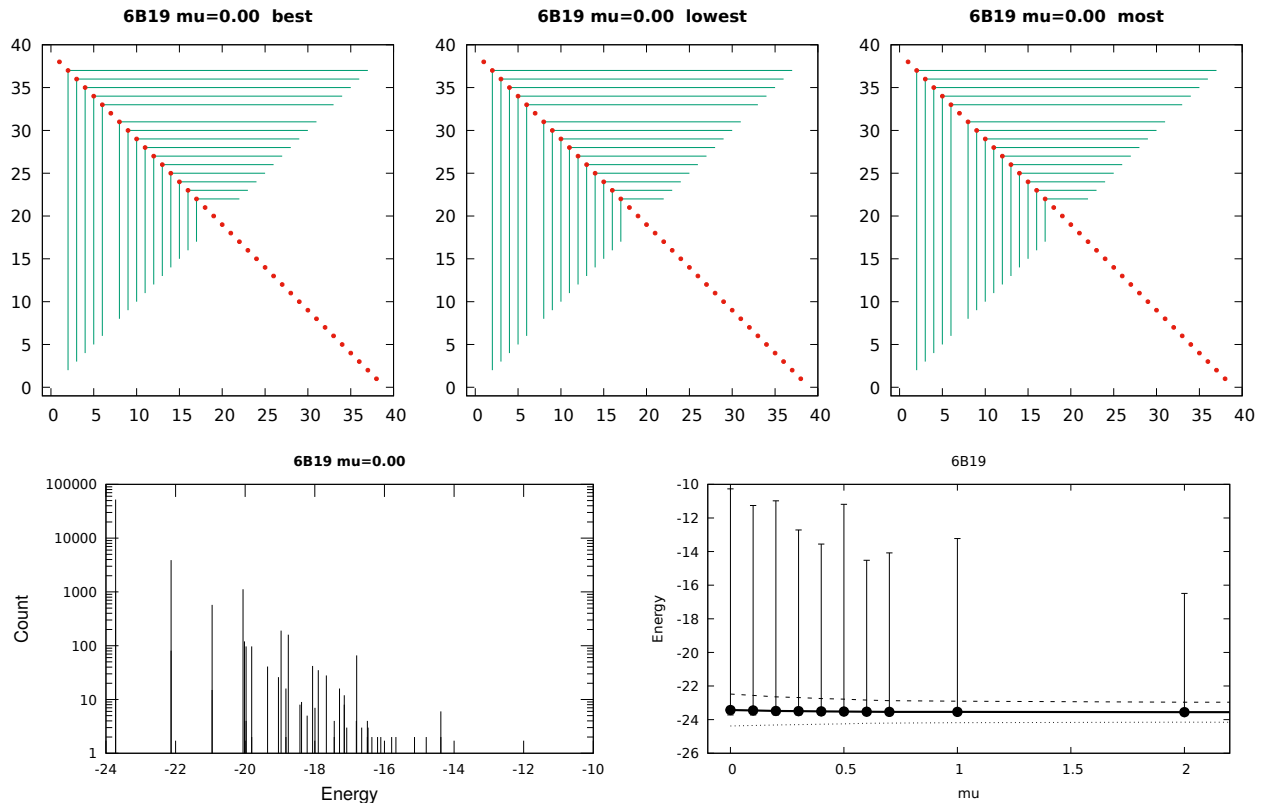


# 6B19

GUGGCGCCCG AACAGGGACG UCCUGUUCG GXCGCCAX

mu: 0 mean energy: -23.4291 variance: 0.901206

lowest: -23.721502 most probable(86.963%): -23.721502 best match: -17.084003



## 6CC1

AAAGGGGAGU AGCGUCGGGA AACCGAAACA AAGUCGCGUG AGGAAACUCA CCGGCUUUGU  
UGACAUACGA AAGUAUGUUU AGCAAGACCU UUC

mu: 0.1 mean energy: -20.9483 variance: 22.6793

lowest: -27.955883 most probable(3.117%): -27.955883 best match: -26.166254

