

RDM;LEN  
TITLE 'E\_203215\_2nd\_embodiment'  
NAO 0.2375  
TEL  
DIM M  
WL 157.63012 157.63 157.62988  
REF 2  
WTW 1 1 1  
XOB 0.0 0.0  
YOB 0.0 73.0  
WTF 1.0 1.0  
PRV  
PWL 157.63012 157.63 157.62988  
'CAFUV' 1.55412403 1.55412431 1.5541246  
END  
SO 0.0 38.0  
S 184.799217499 28.0 'CAFUV'  
S 574.400701842 14.9191686923  
ASP  
K 0.0  
CUF 0.0  
A 0.24698252369e-8; B 0.24936365068e-12; C -0.46108475651e-16  
D 0.33367248055e-20; E -0.14671654507e-24; F 0.0; G 0.0; H 0.0  
J 0.0  
S 149.429601044 26.2183661579 'CAFUV'  
S 258.066811386 25.7835007487  
S -666.363457768 4.139875858  
S -644.172908775 42.7311379999 'CAFUV'  
S 4374.61290133 198.843608746  
S -123.151293249 12.0 'CAFUV'  
S -486.1036787689999 36.7834499449  
S -119.779042846 15.0 'CAFUV'  
S -177.910079011 1.9336937118  
ASP  
K 0.0  
CUF 0.0  
A 0.27492963892e-8; B -0.14121772542e-13; C 0.22811024041e-17  
D -0.27953665147e-21; E -0.13786660891e-25; F 0.0; G 0.0; H 0.0  
J 0.0  
S -179.543989755 -1.9336937118 REFL  
S -177.910079011 -15.0 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A 0.27492963892e-8; B -0.14121772542e-13; C 0.22811024041e-17  
D -0.27953665147e-21; E -0.13786660891e-25; F 0.0; G 0.0; H 0.0  
J 0.0  
S -119.779042846 -36.7834499449  
S -486.1036787689999 -12.0 'CAFUV'  
S -123.151293249 -198.843608746  
S 4374.61290133 -42.7311379999 'CAFUV'  
S -644.172908775 -4.139875858  
S -666.363457768 4.139875858 REFL  
S -644.172908775 42.7311379999 'CAFUV'  
S 4374.61290133 198.843608746  
S 0.0 12.0  
S 0.0 36.7834499449  
S 0.0 15.0  
S 0.0 1.9336937118  
S 0.0 35.0  
S 0.0 284.703153541  
S -495.6250670980001 -284.703153541 REFL CCY 0  
ASP

mann\_fig2.seq

K 0.0  
CUF 0.0  
A 0.35515208889e-10; B 0.79671847875e-16; C 0.35007140639e-21  
D -0.39592425767e-27; E 0.53396238726e-32; F 0.0; G 0.0; H 0.0  
J 0.0  
S -202.781628516 266.762360446 REFL  
ASP  
K 0.0  
CUF 0.0  
A 0.86028961442e-8; B 0.9584581941700001e-13; C 0.75758119448e-18  
D 0.82104753955e-22; E -0.39485599408e-27; F 0.0; G 0.0; H 0.0  
J 0.0  
S -204.67091547 36.2207075401 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.17572211959e-8; B -0.51316561838e-12; C 0.9680919731e-17  
D -0.42018630525e-21; E -0.10069125124e-25; F 0.0; G 0.0; H 0.0  
J 0.0  
S -184.10464041 2.2318922794  
S 303.816736042 17.6197071541 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.25159748862e-8; B 0.36578351651e-12; C -0.19829382501e-16  
D -0.9595257437099999e-21; E 0.5325781801500001e-26; F 0.10556048801e-29  
G 0.0; H 0.0; J 0.0  
S 177.463669677 18.6087785474  
S 209.468539213 97.4393145892 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.14505270859e-7; B -0.72723803263e-12; C 0.9763426818e-17  
D 0.8725648186899999e-21; E 0.10462446141e-24; F -0.53391133117e-29  
G 0.0; H 0.0; J 0.0  
S 181.41038884 0.9500000406  
S 161.869823453 64.7103535525 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A 0.8543077415400001e-8; B 0.39994458273e-12; C -0.31738044222e-16  
D -0.2808144339e-20; E -0.11102575102e-24; F 0.70100345721e-29  
G 0.0; H 0.0; J 0.0  
S -976.129830622 19.12845629  
S -253.852658159 43.0252722842 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A 0.20430822008e-7; B 0.1513093804e-11; C -0.38537583277e-16  
D 0.10860159272e-20; E -0.34131693054e-25; F -0.9137582415e-30  
G 0.0; H 0.0; J 0.0  
S 158.684225172 9.847700124599999  
S 174.545959776 29.8706690386 'CAFUV'  
S 440.082909442 20.6360131027  
ASP  
K 0.0  
CUF 0.0  
A 0.28842178588e-7; B 0.19071744027e-11; C -0.407197239e-16; D 0.0  
S 204.334336799 17.5954007625 'CAFUV'  
S 174.152983444 27.6333473213  
S 304.178032357 31.7893319288 'CAFUV'  
S 9745.067330669999 0.9500050768  
ASP

mann\_fig2.seq

K 0.0  
CUF 0.0  
A 0.15059574307e-7; B -0.31147386031e-12; C 0.1832649336e-16  
D -0.10874799986e-20; E -0.29321969546e-25; F 0.0; G 0.0; H 0.0  
J 0.0  
S 1119.76729441 26.4512814077 'CAFUV'  
S -711.4732816870001 -14.0308536556  
S 0.0 14.9808536556  
STO  
S 300.521153051 38.4166988215 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.50414145487e-8; B -0.3384500793e-12; C 0.25970619678e-16  
D -0.15714461982e-20; E 0.31436951622e-25; F -0.9584885532700002e-30  
G 0.0; H 0.0; J 0.0  
S -3552.58466033 0.95  
S 220.251399572 72.47762766370001 'CAFUV'  
S -394.1444659329999 10.187867467  
ASP  
K 0.0  
CUF 0.0  
A -0.1495971046e-8; B -0.18497549861e-12; C -0.18185037898e-16  
D 0.12005285876e-20; E -0.50242570791e-26; F 0.0; G 0.0; H 0.0  
J 0.0  
S -305.456017514 9.0 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.48603081497e-8; B -0.14539778312e-11; C 0.6645283444599999e-16  
D 0.11202007171e-20; E -0.6581045262700001e-25; F 0.33173450906e-30  
G 0.0; H 0.0; J 0.0  
S -401.932510901 0.95  
S 170.697258276 29.5303251664 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A -0.21310449572e-7; B -0.2272232935e-11; C 0.41484272242e-16  
D -0.13855130687e-19; E -0.15411948592e-24; F 0.0; G 0.0; H 0.0  
J 0.0  
S 857.300600992 0.95  
S 137.50782491 20.1140519701 'CAFUV'  
S 219.235388458 5.3275051468  
S 325.168227732 49.8818568363 'CAFUV'  
ASP  
K 0.0  
CUF 0.0  
A 0.18500168328e-6; B -0.10912040175e-10; C -0.89195985766e-16  
D 0.99054645065e-19; E -0.9925196629300001e-23; F 0.0; G 0.0; H 0.0  
J 0.0  
S 0.0 4.0544168245  
THC 0  
SI 0.0 -0.713e-5  
GO

takahashi\_fig6.seq

RDM;LEN  
NAO 0.16  
DIM M  
WL 157.6  
REF 1  
WTW 1  
XOB 0.0 0.0  
YOB 0.0 105.0  
WTF 1.0 200.0  
VUY 0.0 0.0  
VLY 0.0 0.0  
PRV  
PWL 157.6  
'CaF2' 1.56  
END  
SO 0.0 89.097796  
S -183.1465 19.722044 'CaF2'  
S -172.17054 34.263431  
ASP  
K 0.0  
CUF 0.0  
A -0.264407e-7; B -0.476678e-12; C 0.155729e-15; D -0.517698e-20  
S -461.61726 32.462803 'CaF2'  
S -180.99449 199.550635  
ASP  
K 0.0  
CUF 0.0  
A 0.280731e-7; B 0.571906e-12; C 0.469828e-17; D 0.98805e-21  
S -272.56734 13.359375 'CaF2'  
S -988.74052 13.790803  
S -326.92312 -13.790803 REFL  
S -988.74052 -13.359375 'CaF2'  
S -272.56734 -179.450635  
S 1164.40577 226.600813 REFL  
S -673.49253 52.893617 'CaF2'  
ASP  
K 0.0  
CUF 0.0  
A 0.275486e-7; B -0.579812e-11; C 0.188014e-15; D -0.327703e-20  
S -170.57409 1.0  
S 145.84783 18.775044 'CaF2'  
ASP  
K 0.0  
CUF 0.0  
A -0.305645e-7; B -0.100924e-11; C 0.185962e-16; D -0.380314e-20  
S 177.50368 1.0  
S 174.53532 35.709621 'CaF2'  
S 297.00962 294.044471  
ASP  
K 0.0  
CUF 0.0  
A 0.476746e-7; B -0.515517e-11; C -0.536543e-16; D 0.833063e-20  
S -2044.05791 -247.356971 REFL  
S 160.43373 -10.6875 'CaF2'  
S 366.71769 -12.0  
S 264.23742 12.0 REFL  
S 366.71769 10.6875 'CaF2'  
S 160.43373 267.356971  
S 385.86277 39.609336 'CaF2'  
ASP  
K 0.0  
CUF 0.0  
A -0.916646e-7; B 0.125088e-11; C -0.367721e-16; D -0.108975e-20

takahashi\_fig6.seq

S -192.31716 45.851242  
S -210.15146 15.0 'CaF2'  
S -216.35913 193.996639  
ASP  
K 0.0  
CUF 0.0  
A -0.696241e-7; B 0.269136e-10; C -0.305398e-14; D 0.112606e-18  
S 224.33623 28.450755 'CaF2'  
ASP  
K 0.0  
CUF 0.0  
A 0.216592e-7; B 0.590674e-11; C 0.832609e-16; D -0.333598e-19  
S 112.85221 2.259549  
S 118.06671 31.990438 'CaF2'  
S -575.87913 51.431023  
ASP  
K 0.0  
CUF 0.0  
A 0.180772e-6; B 0.105754e-10; C 0.6915e-15; D 0.189377e-19  
S 0.0 32.226964  
STO  
S 739.93426 27.150099 'CaF2'  
ASP  
K 0.0  
CUF 0.0  
A -0.173909e-7; B 0.50743e-11; C -0.989619e-16; D -0.182632e-19  
S -203.64309 1.0  
S 180.06059 22.479157 'CaF2'  
S 737.32257 1.0  
S 135.4846 23.362271 'CaF2'  
S 559.50671 4.229139  
ASP  
K 0.0  
CUF 0.0  
A 0.764004e-7; B 0.873773e-11; C -0.28515e-15; D 0.481104e-19  
S 120.7016 24.487231 'CaF2'  
S 372.54409 8.973147  
S 91.59293 44.833371 'CaF2'  
S -2636.41853 6.0  
ASP  
K 0.0  
CUF 0.0  
A 0.145715e-6; B -0.124981e-9; C 0.704755e-13; D -0.114853e-16  
SI 0.0 0.0  
GO

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