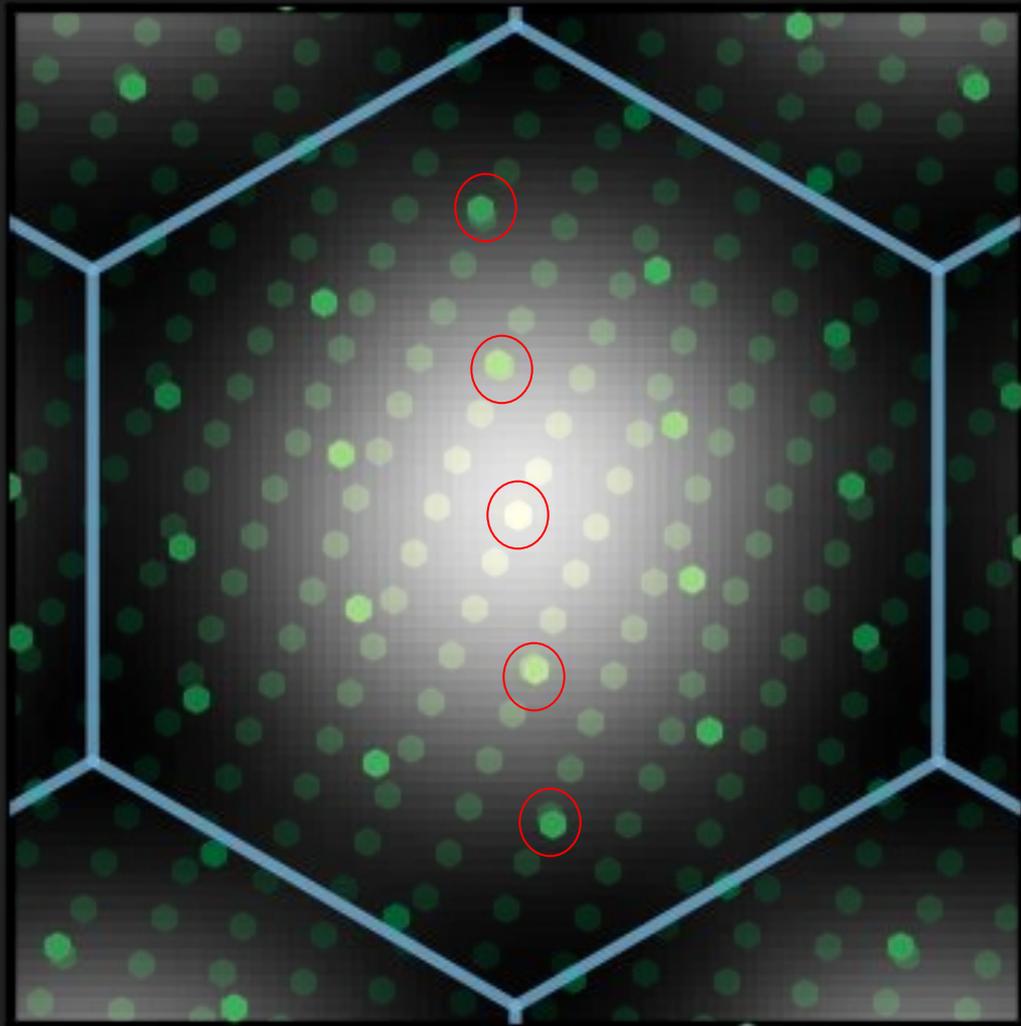
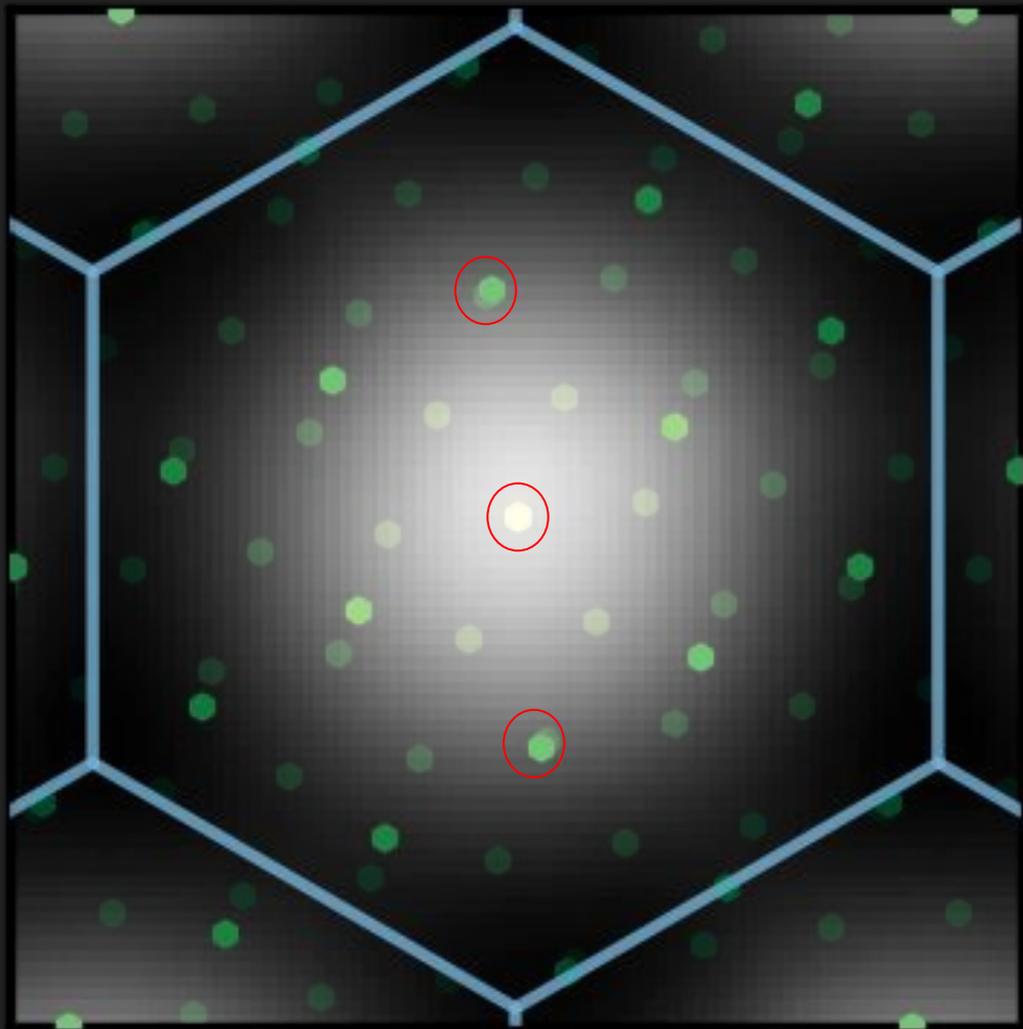


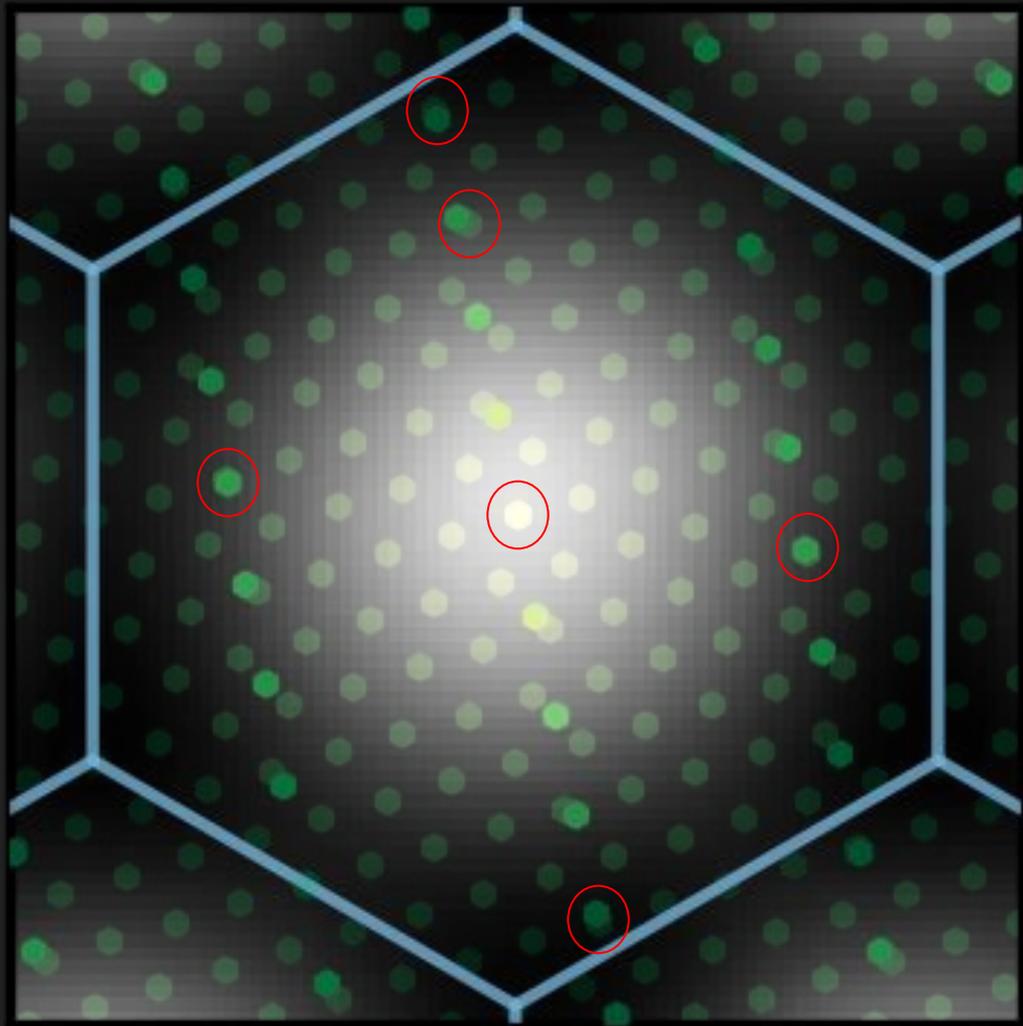
MoS₂ - MoS₂ Q1D/2D Overlay



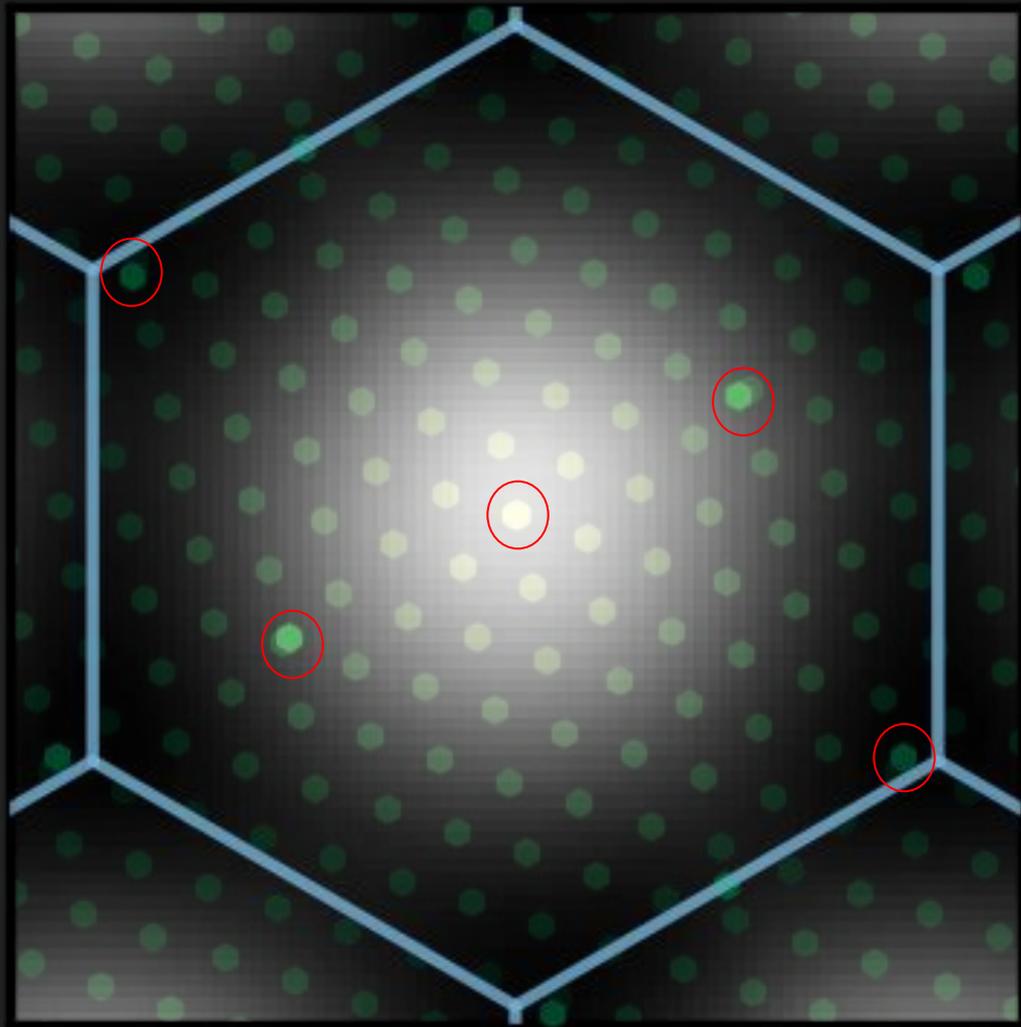
twist_min_search: 9.98
twist_max_search: 10.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 948
Mo Atoms (Top Layer): 248
Mo Atoms (Bottom Layer): 248



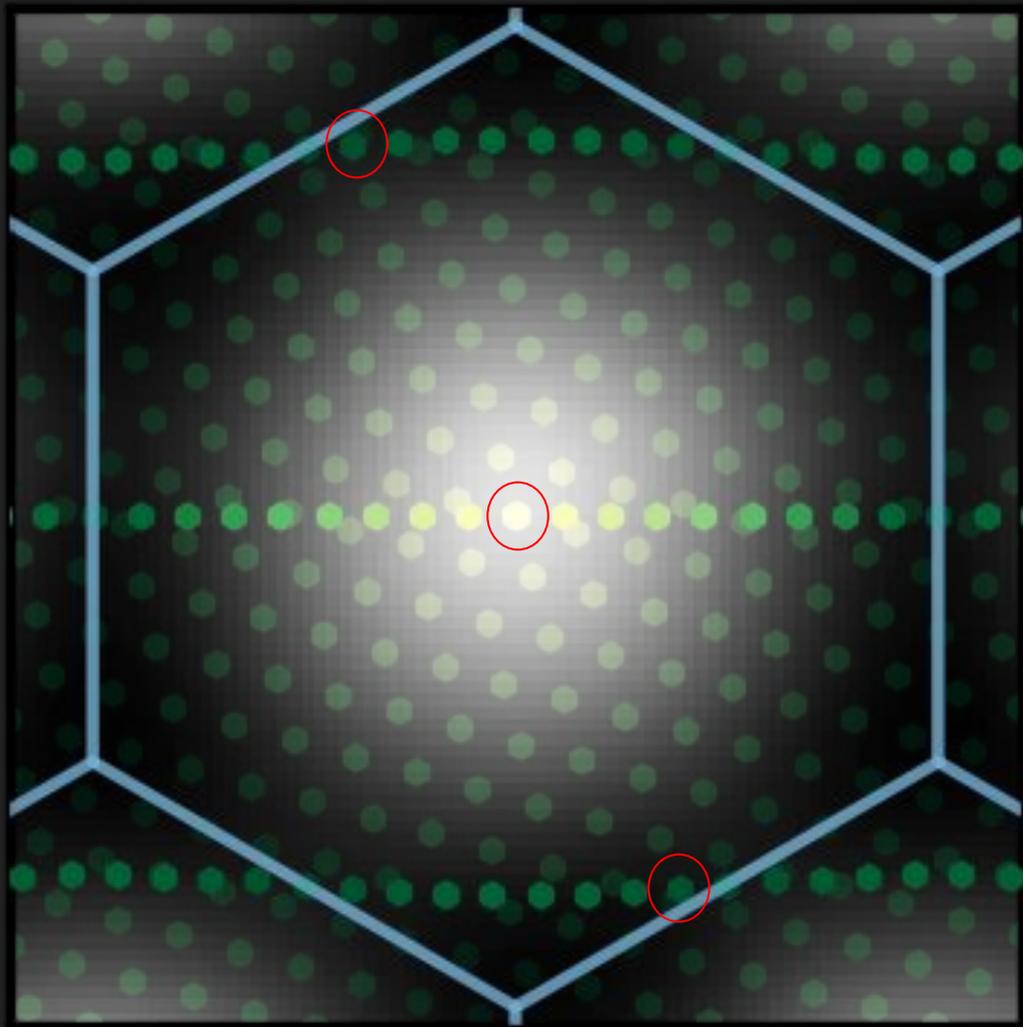
twist_min_search: 14.98
twist_max_search: 15.02
max_strain: 0.02
is_1D_dir_1: ~~False~~
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 998
Mo Atoms (Top Layer): 48
Mo Atoms (Bottom Layer): 47



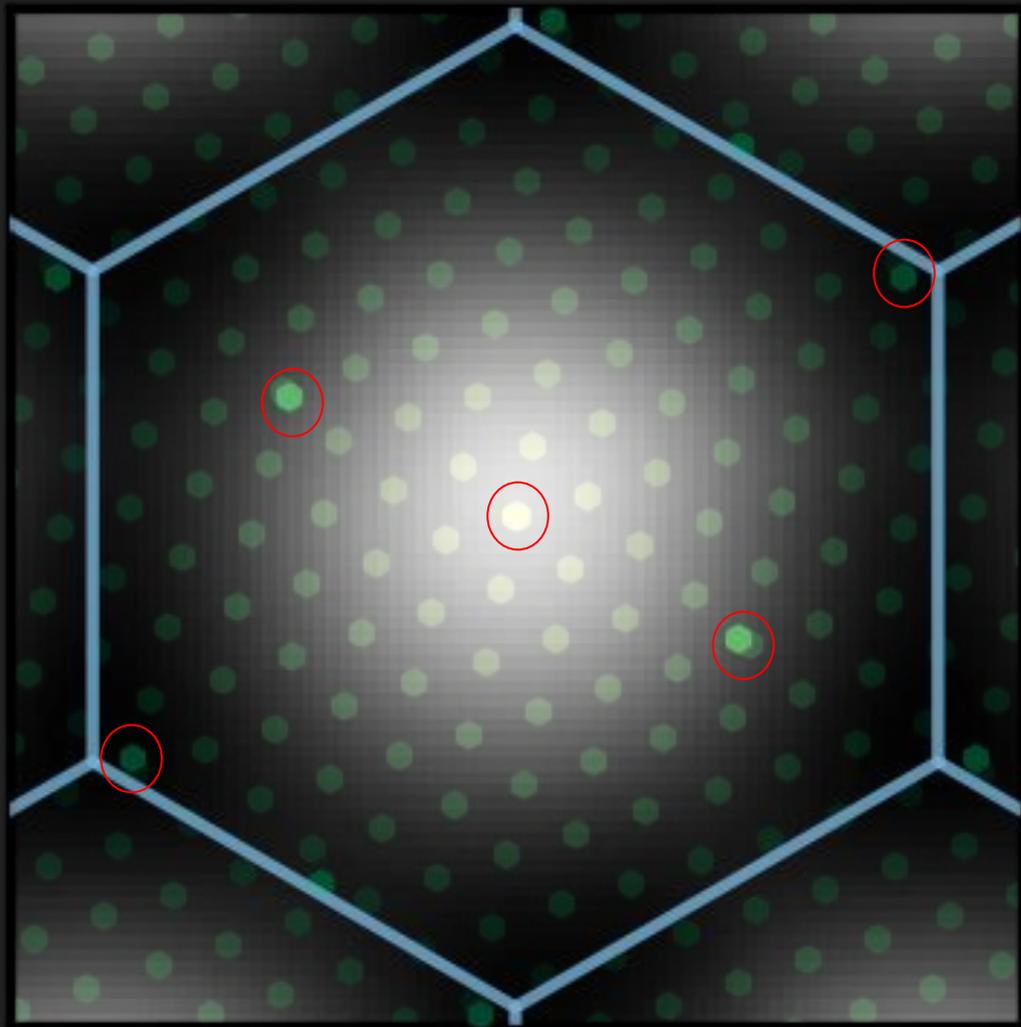
twist_min_search: 19.98
twist_max_search: 20.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 935
Mo Atoms (Top Layer): 256
Mo Atoms (Bottom Layer): 257



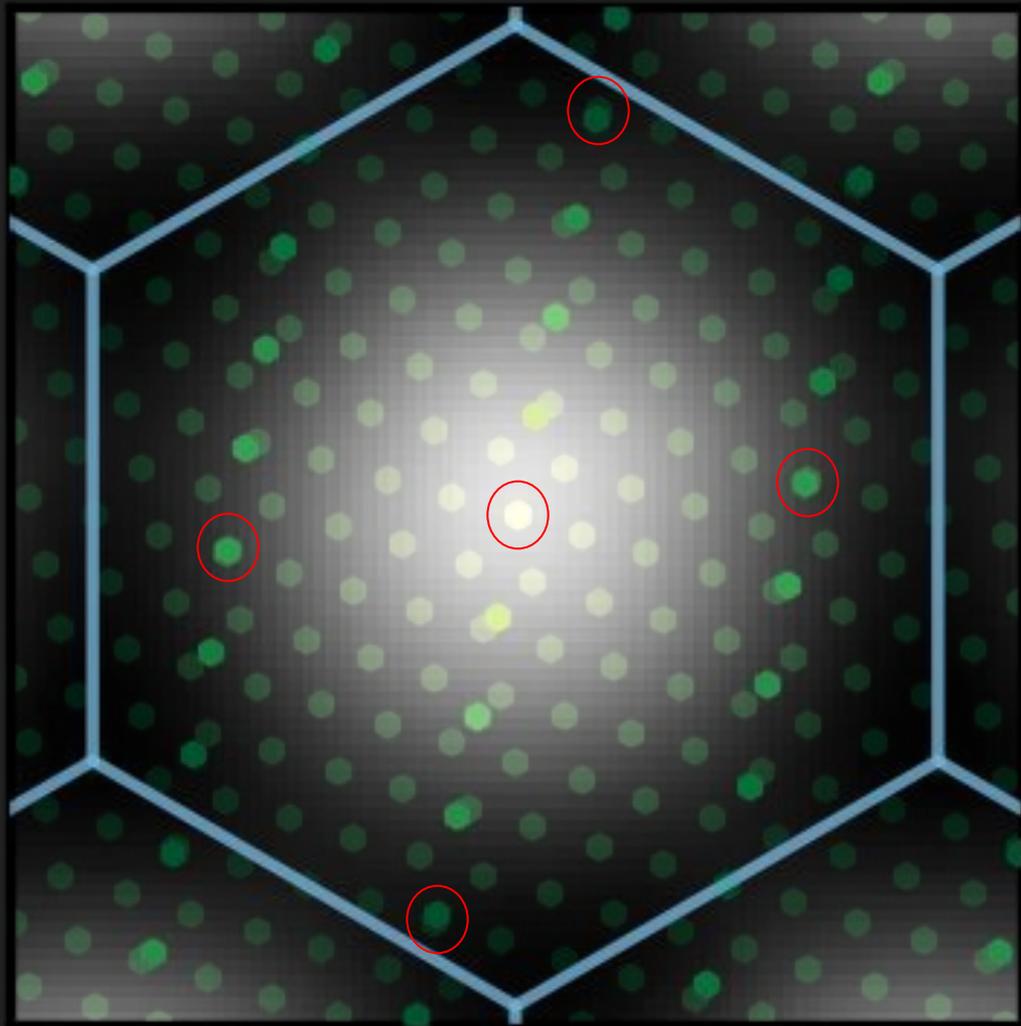
twist_min_search: 24.98
twist_max_search: 25.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 368
Mo Atoms (Top Layer): 633
Mo Atoms (Bottom Layer): 633



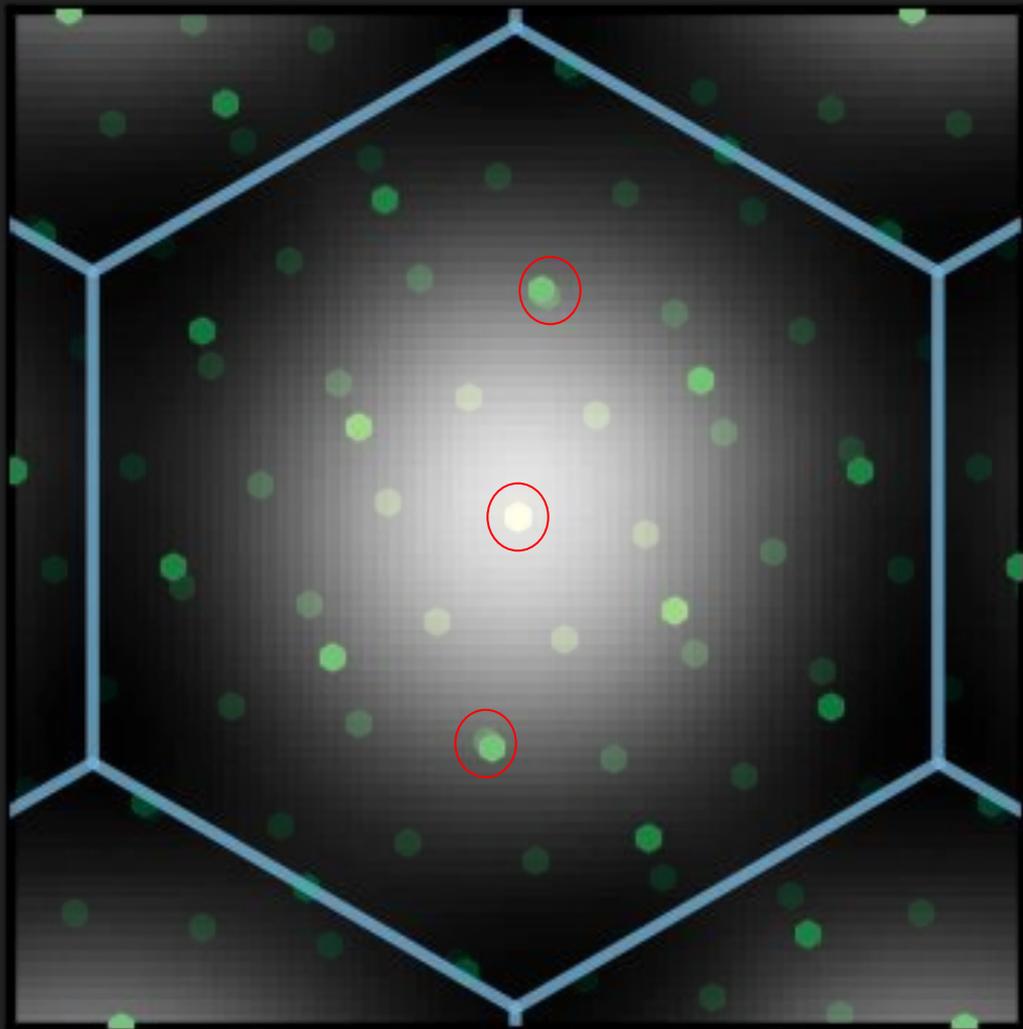
twist_min_search: 29.98
twist_max_search: 30.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 18
max_iter_twist_search: 5
Total Atoms: 2086
Mo Atoms (Top Layer): 381
Mo Atoms (Bottom Layer): 381



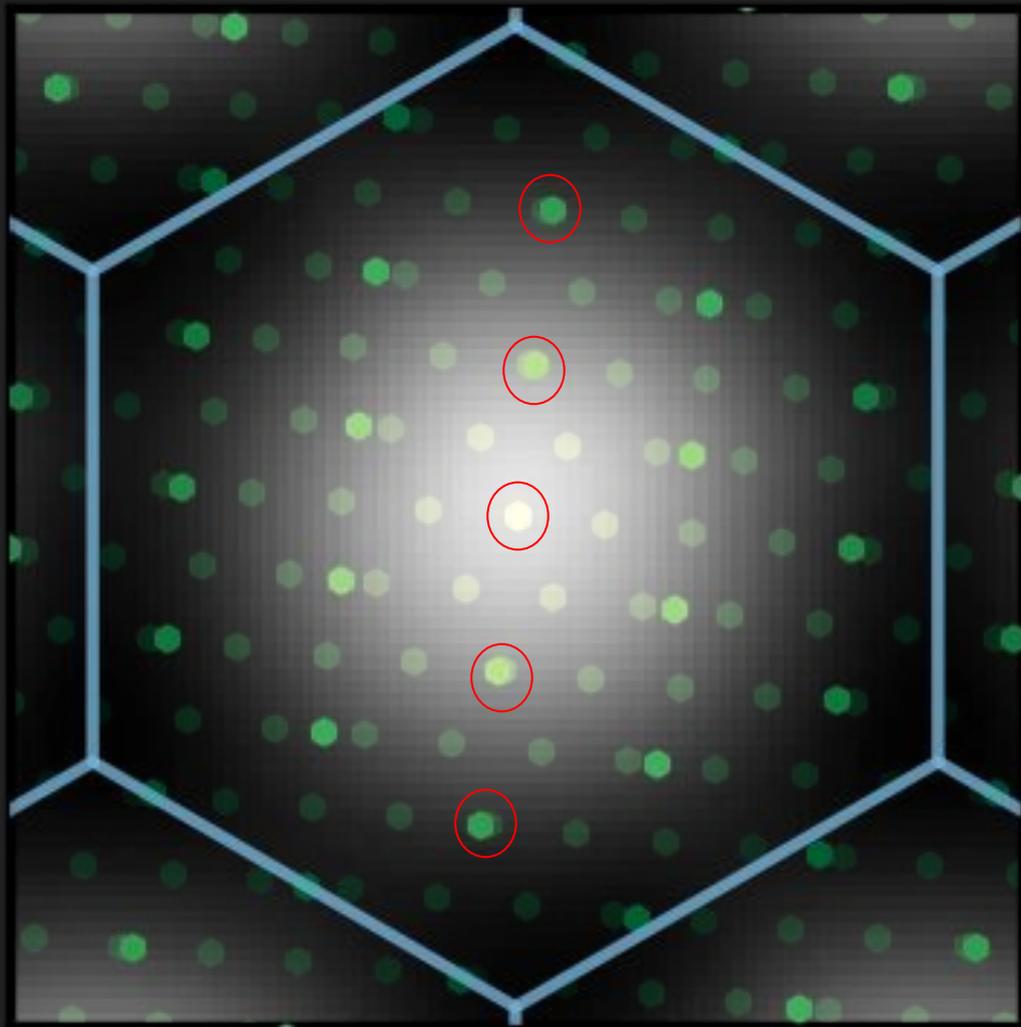
twist_min_search: 34.98
twist_max_search: 35.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 368
Mo Atoms (Top Layer): 633
Mo Atoms (Bottom Layer): 633



twist_min_search: 39.98
twist_max_search: 40.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 939
Mo Atoms (Top Layer): 256
Mo Atoms (Bottom Layer): 257



twist_min_search: 44.98
twist_max_search: 45.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 958
Mo Atoms (Top Layer): 46
Mo Atoms (Bottom Layer): 47



twist_min_search: 49.98
twist_max_search: 50.02
max_strain: 0.02
is_1D_dir_1: False
is_1D_dir_2: False
Rmax_max_search: 16
max_iter_twist_search: 5
Total Atoms: 544
Mo Atoms (Top Layer): 24
Mo Atoms (Bottom Layer): 24

MoS₂ WSe₂ Q1D Structures

0 degree

twist_min_search = 0

twist_max_search = 0.1

max_strain = 0.2

is_1D_dir_1 = True

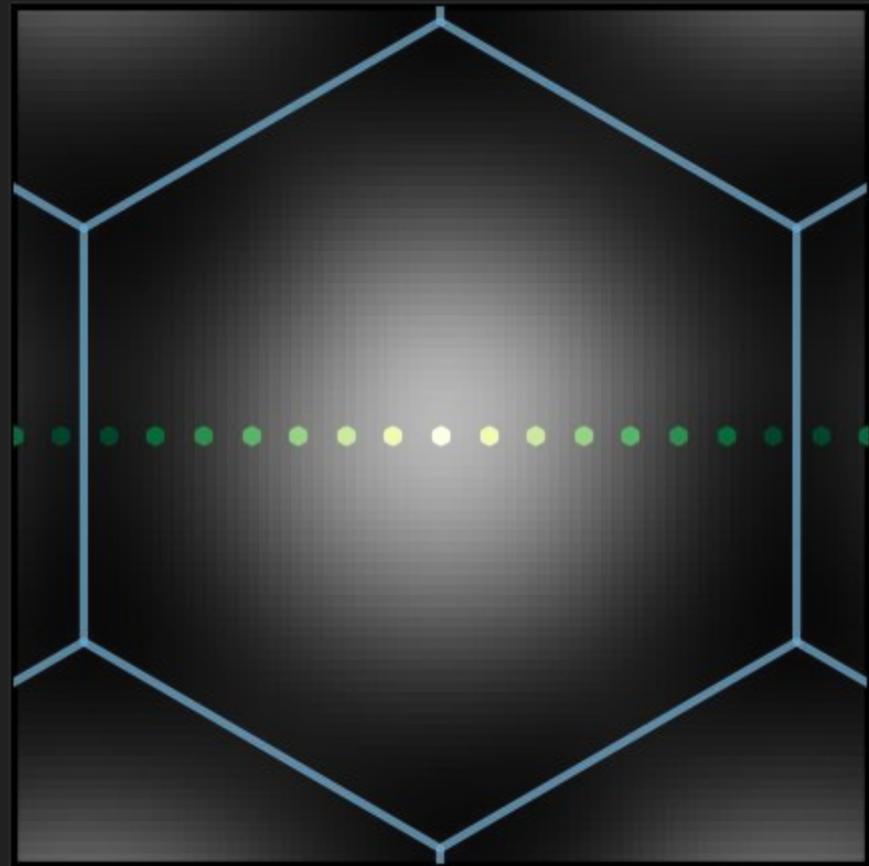
Rmax_max_search = 16

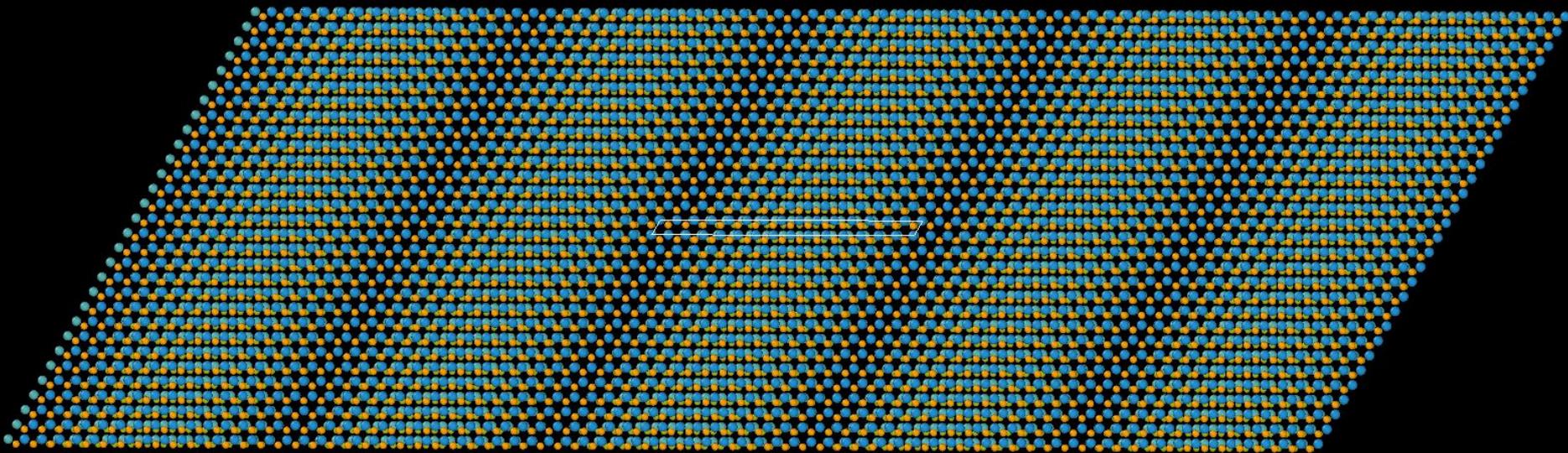
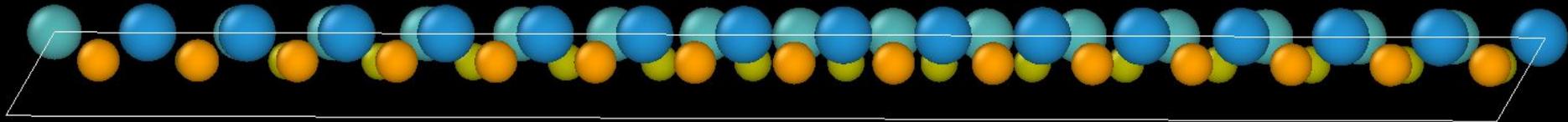
max_iter_twist_search = 5

Total atoms: 93

Mo count: 16

W count: 15





4 degree

twist_min_search = 4

twist_max_search = 4.1

max_strain = 0.1

is_1D_dir_1 = True

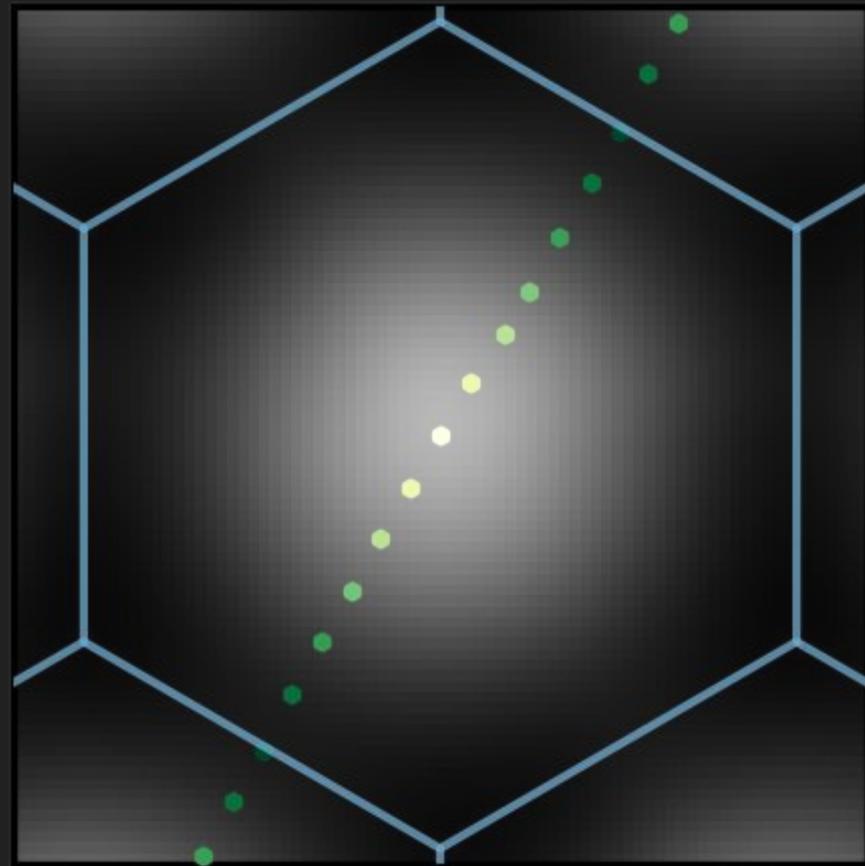
Rmax_max_search = 16

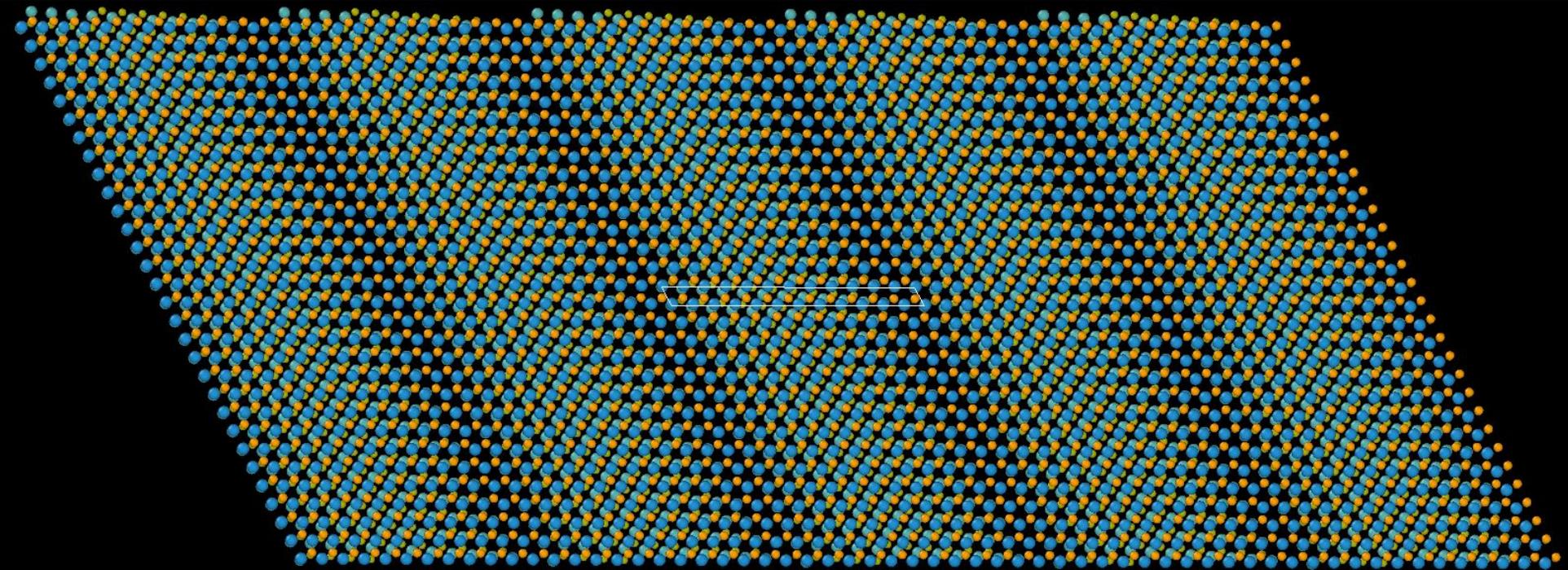
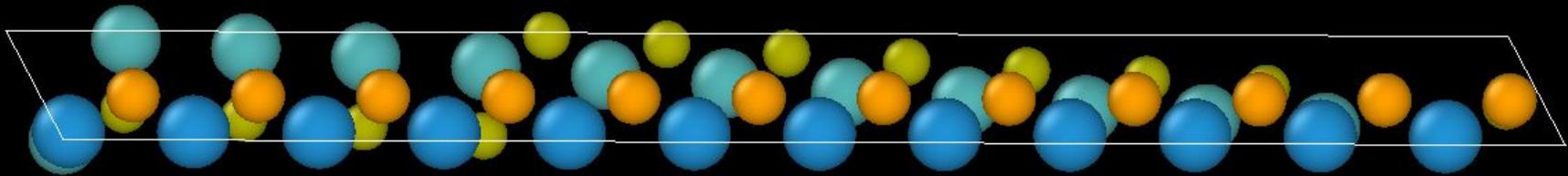
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





8 degree

twist_min_search = 8

twist_max_search = 8.1

max_strain = 0.02

is_1D_dir_1 = True

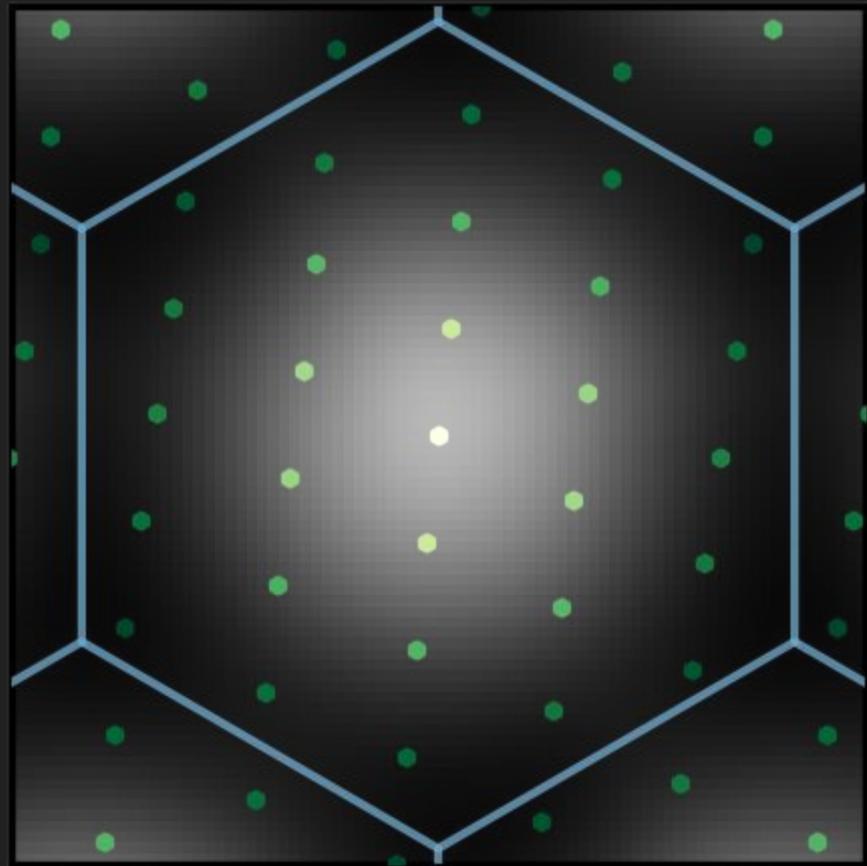
Rmax_max_search = 30

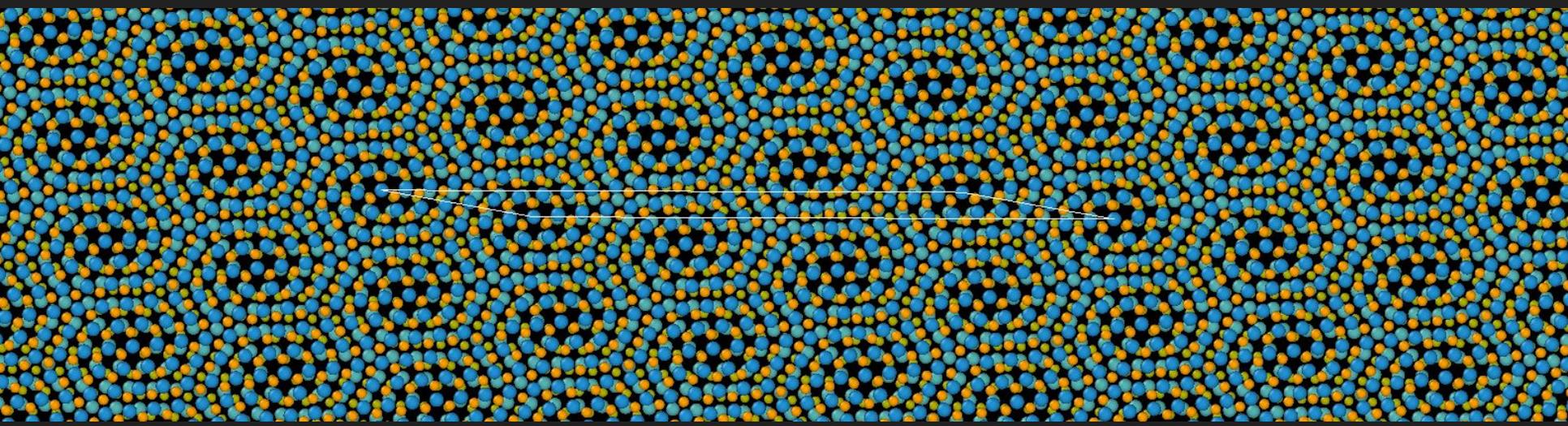
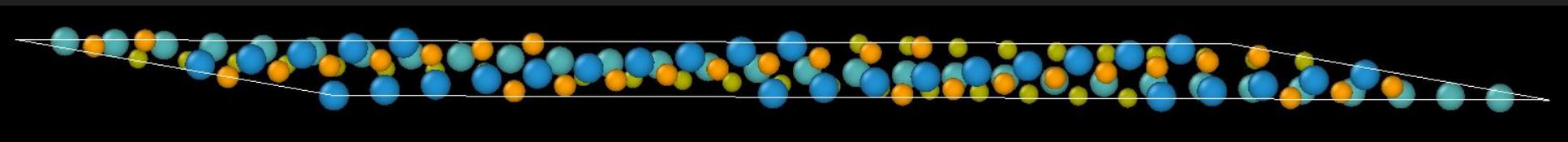
max_iter_twist_search = 5

Total atoms: 180

Mo count: 31

W count: 29





12 degrees

twist_min_search = 12

twist_max_search = 12.1

max_strain = 0.02

is_1D_dir_1 = True

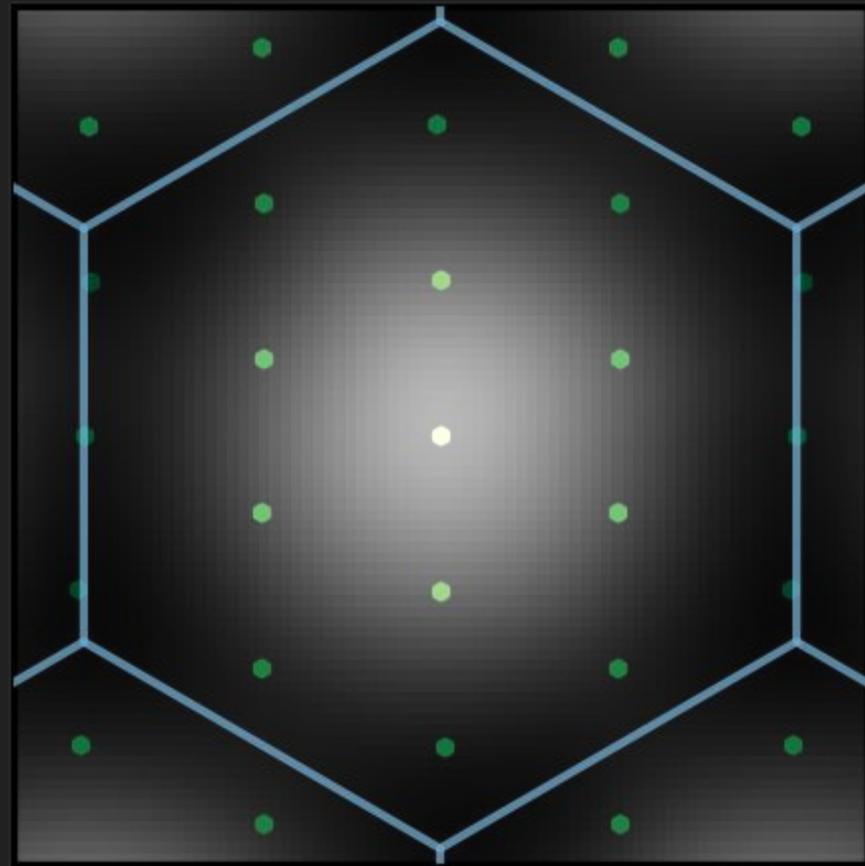
Rmax_max_search = 14

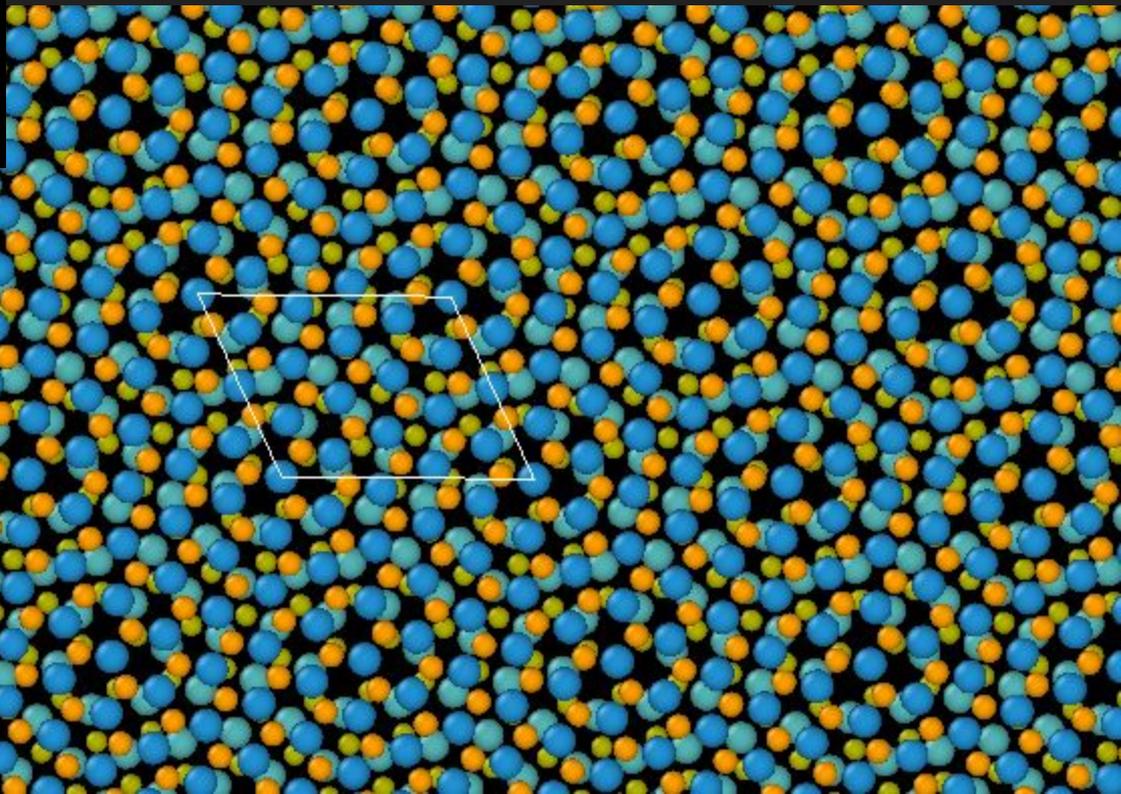
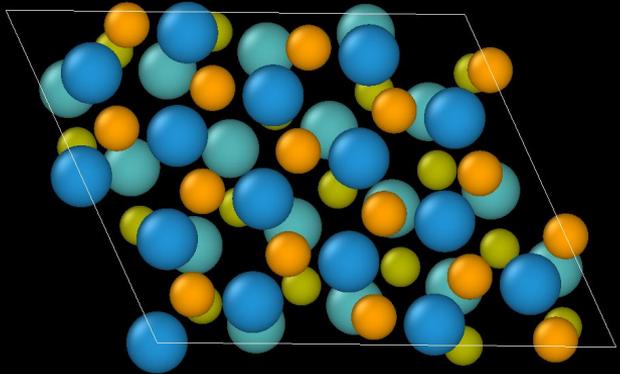
max_iter_twist_search = 5

Total atoms: 99

Mo count: 17

W count: 16





16 degree

twist_min_search = 16

twist_max_search = 16.1

max_strain = 0.1

is_1D_dir_1 = True

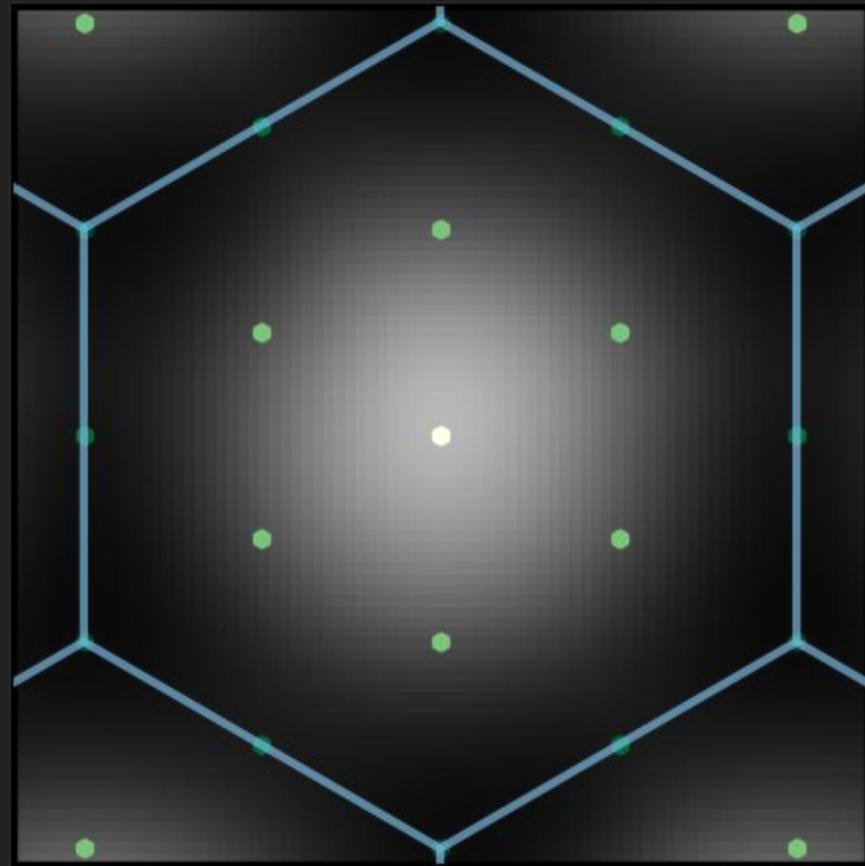
Rmax_max_search = 16

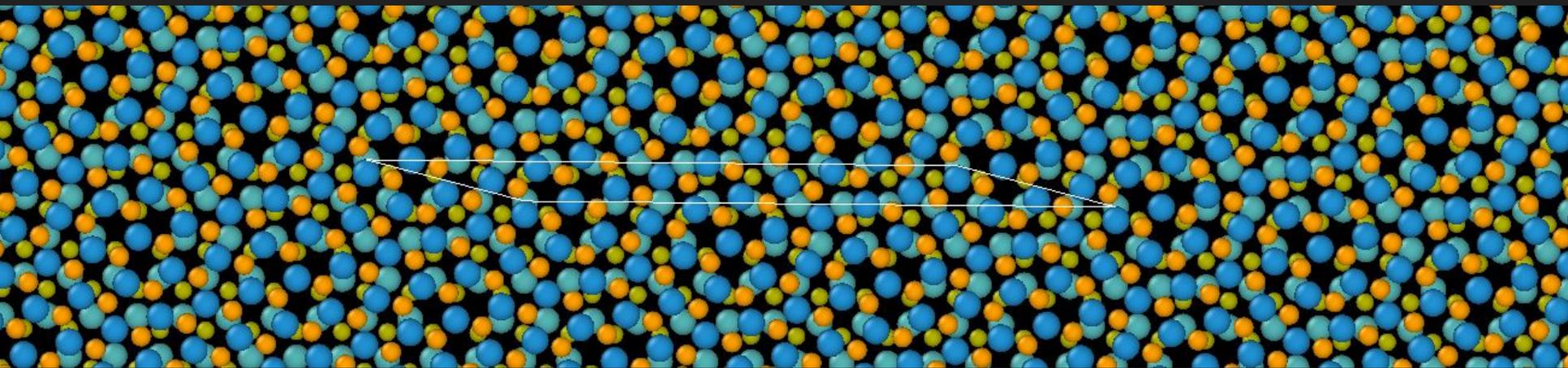
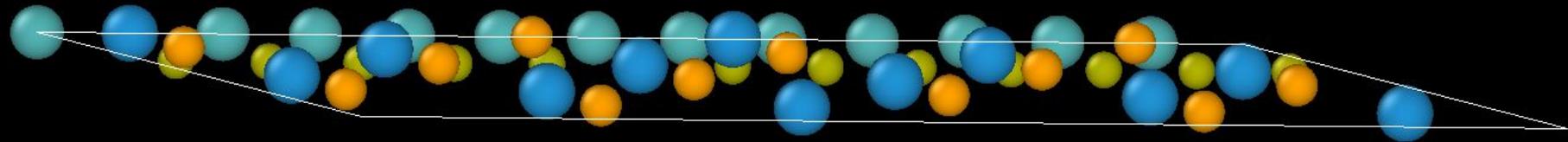
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





20 degree

twist_min_search = 20

twist_max_search = 20.1

max_strain = 0.1

is_1D_dir_1 = True

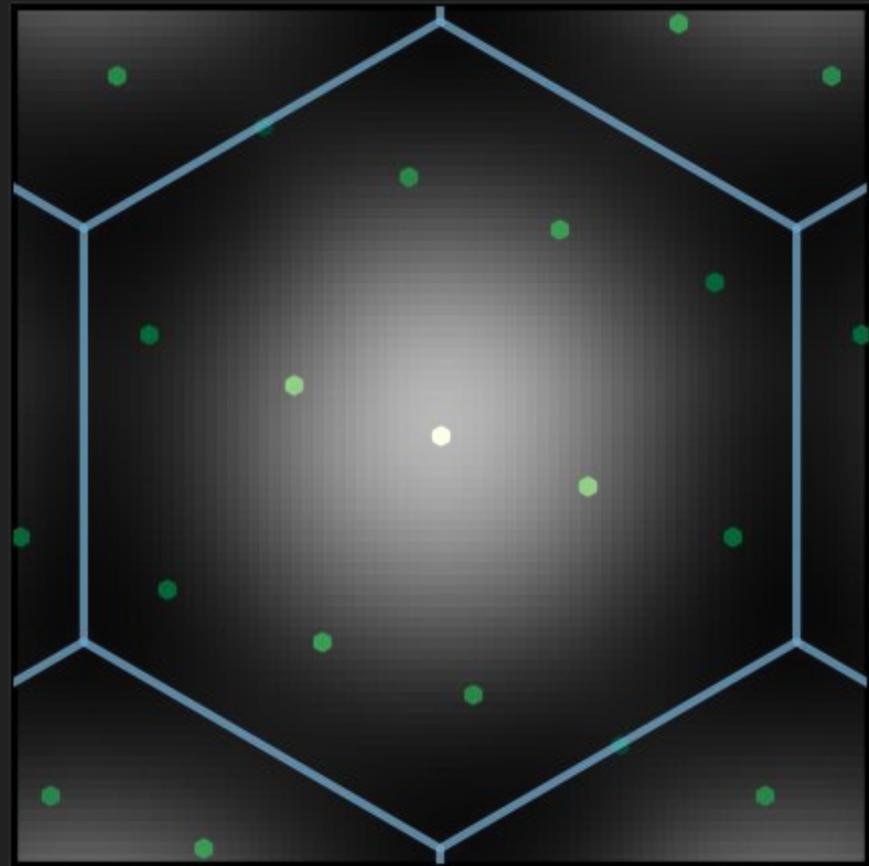
Rmax_max_search = 16

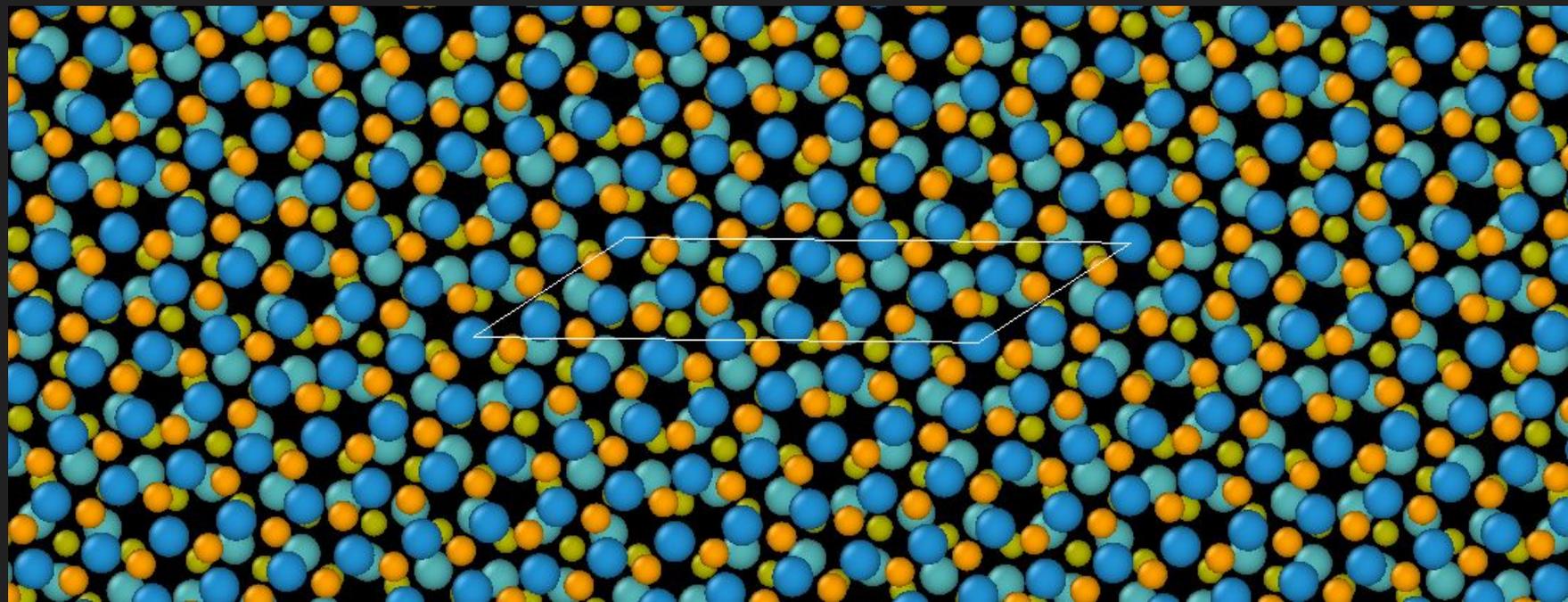
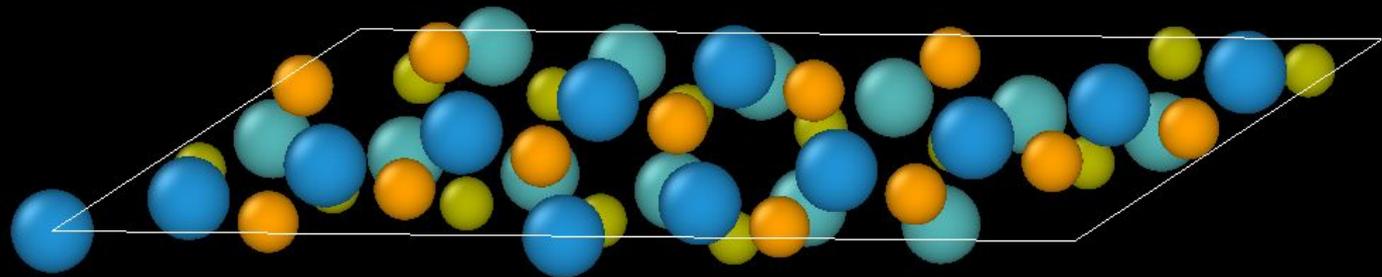
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





24 degree

twist_min_search = 24

twist_max_search = 24.1

max_strain = 0.02

is_1D_dir_1 = True

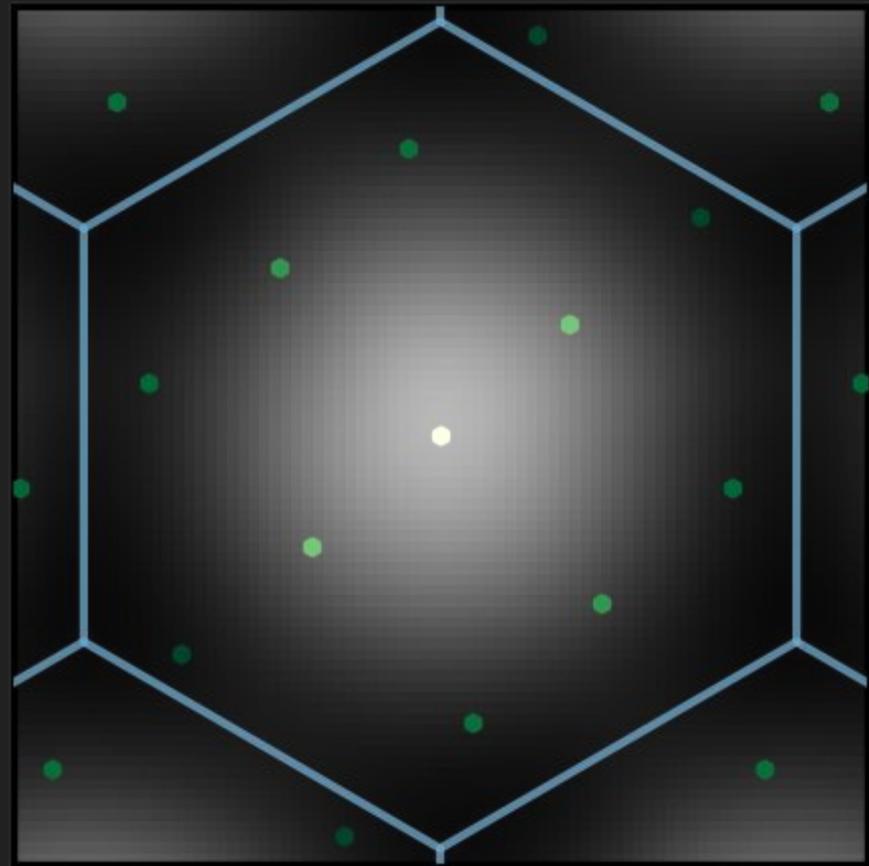
Rmax_max_search = 14

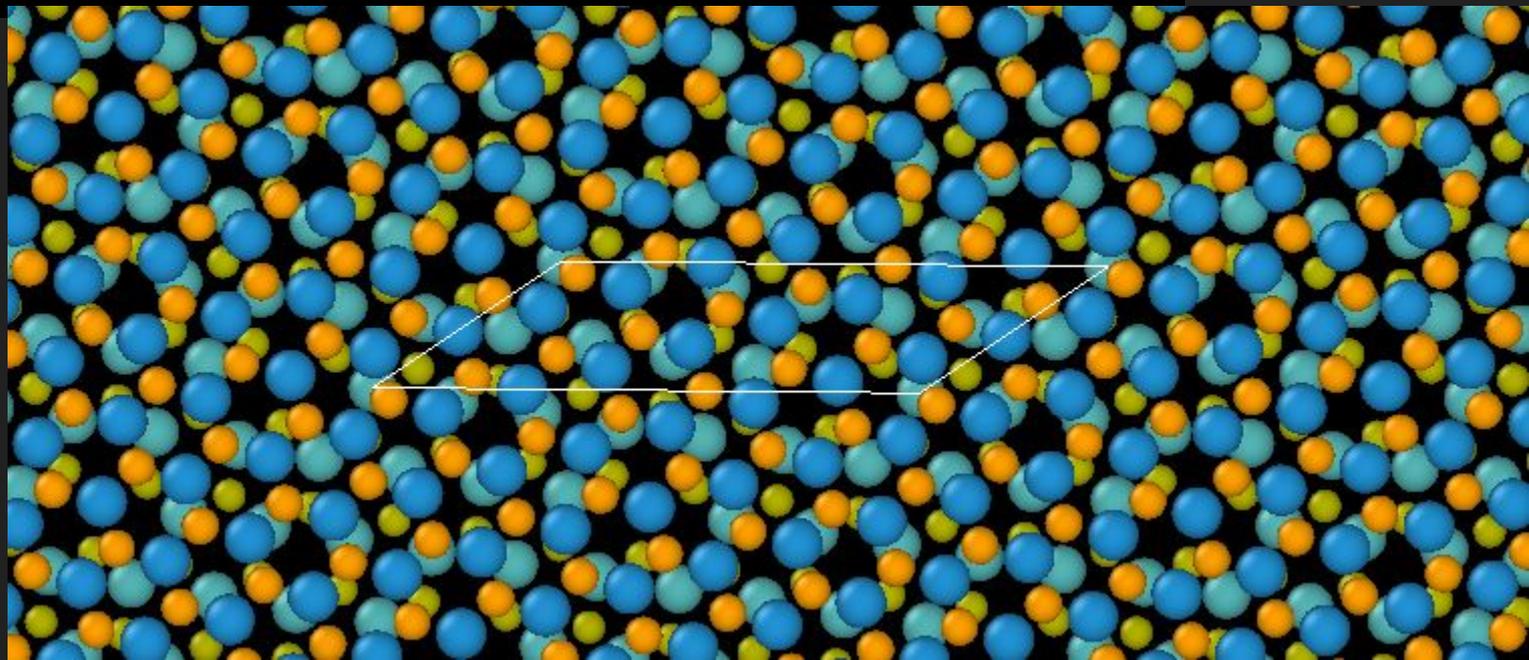
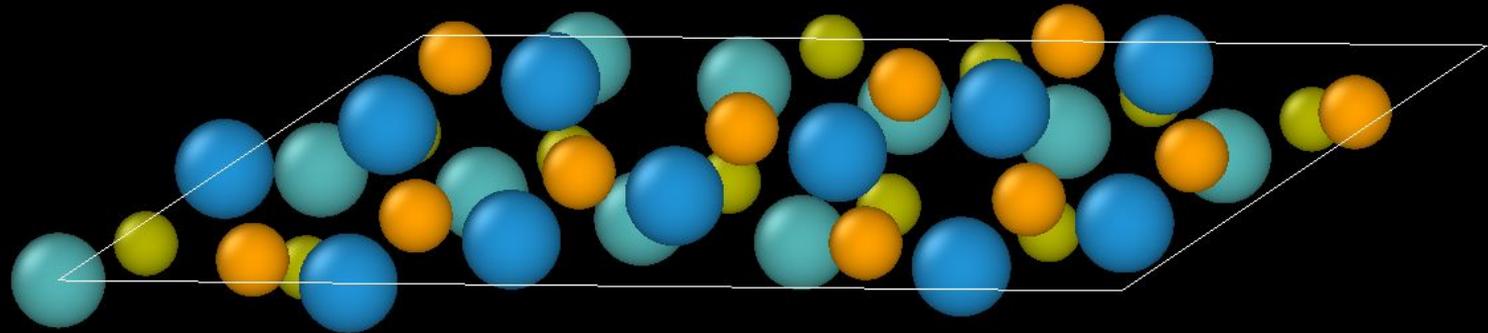
max_iter_twist_search = 5

Total atoms: 66

Mo count: 11

W count: 11





28 degree

twist_min_search = 28

twist_max_search = 28.02

max_strain = 0.02

is_1D_dir_1 = True

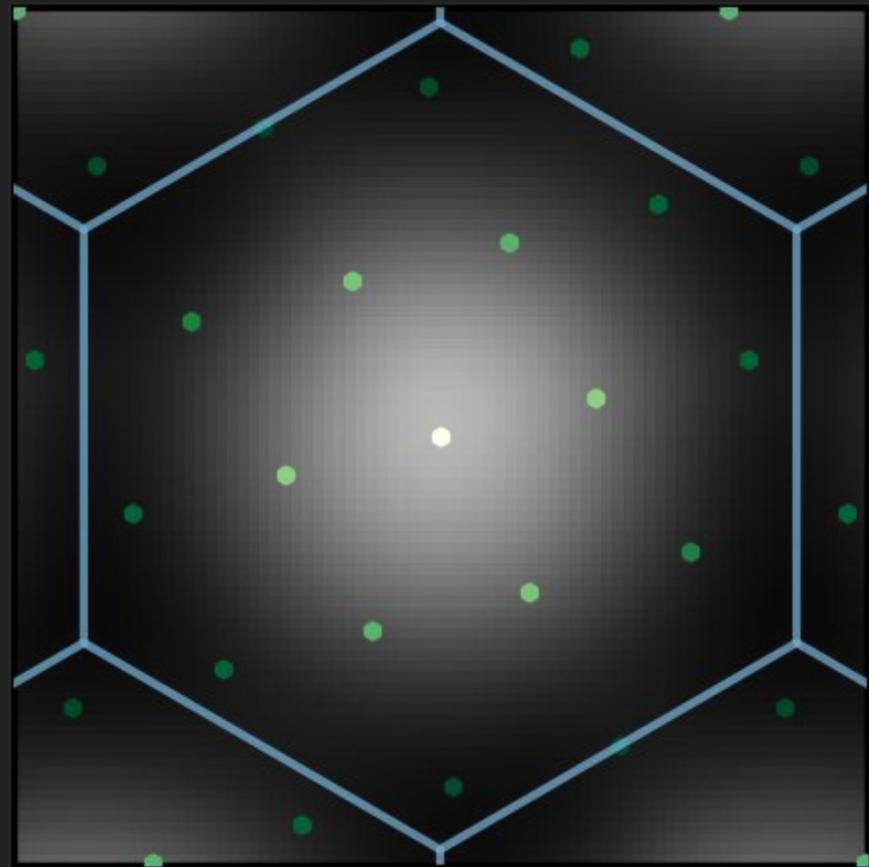
Rmax_max_search = 14

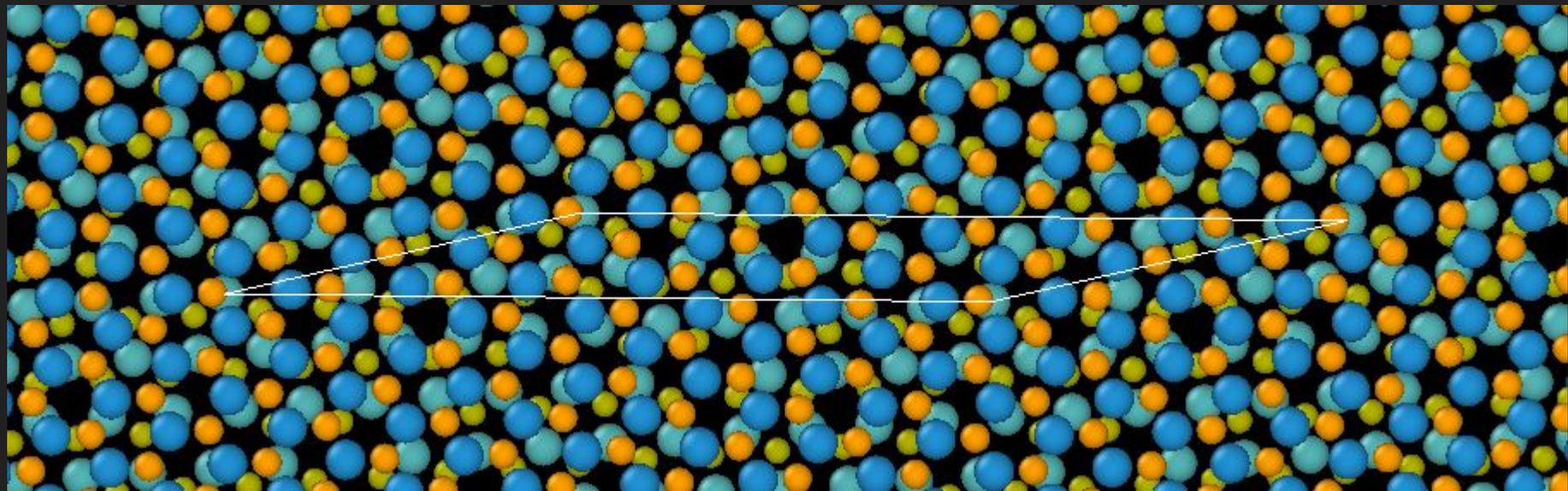
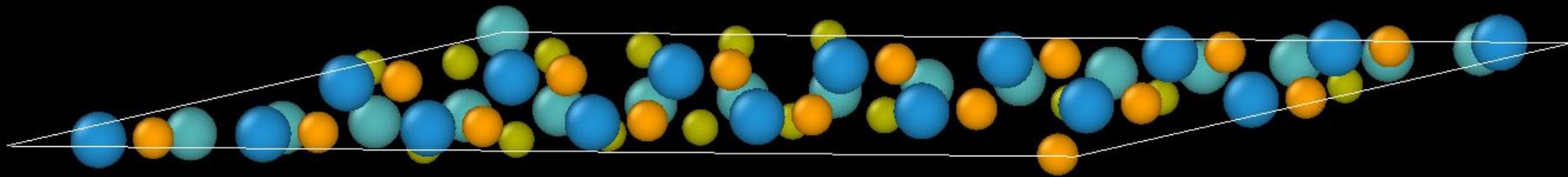
max_iter_twist_search = 5

Total atoms: 99

Mo count: 17

W count: 16





30 degree

twist_min_search = 30

twist_max_search = 30.02

max_strain = 0.02

is_1D_dir_1 = True

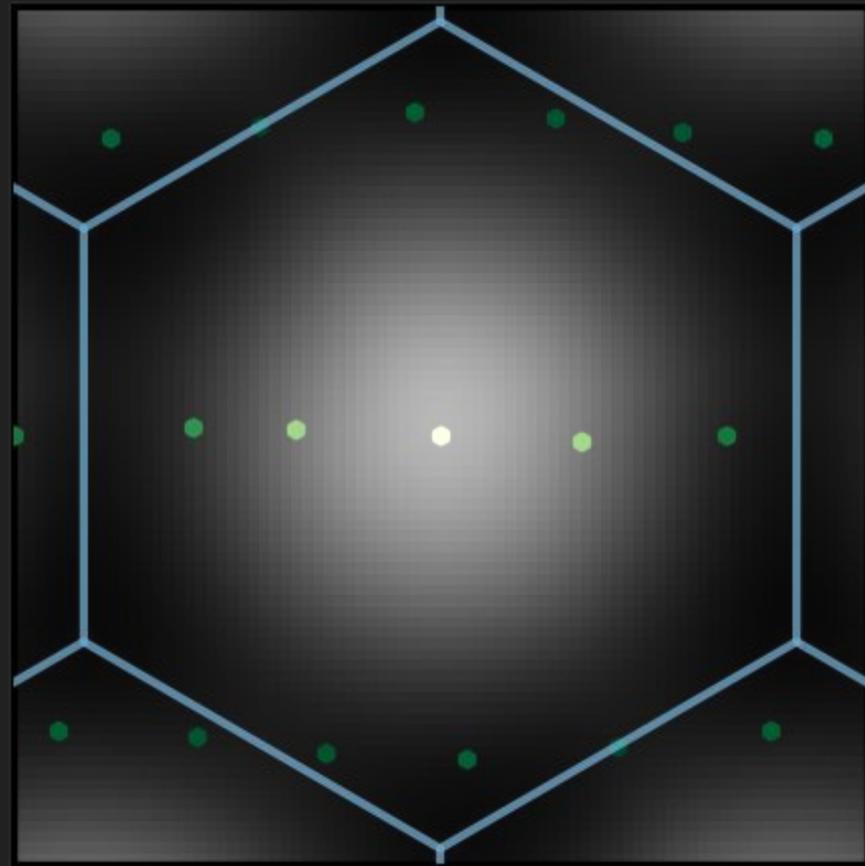
Rmax_max_search = 14

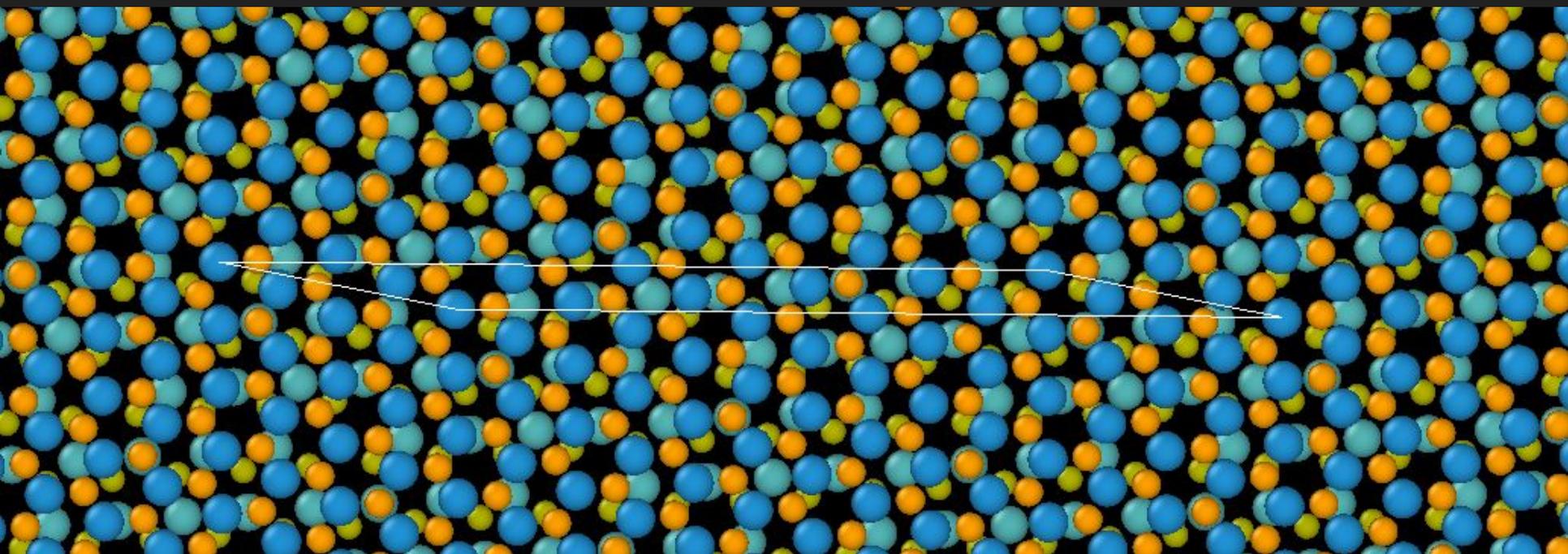
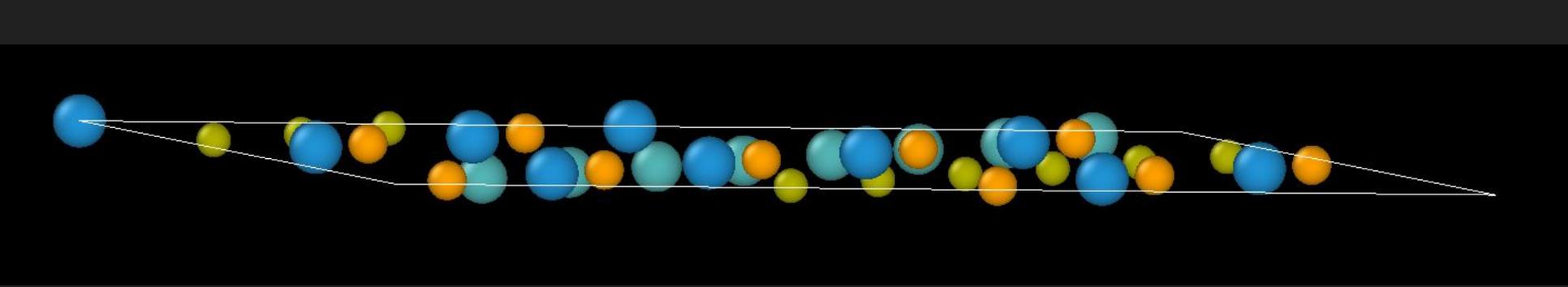
max_iter_twist_search = 5

Total atoms: 57

Mo count: 9

W count: 10





35 degree

twist_min_search = 35

twist_max_search = 35.02

max_strain = 0.02

is_1D_dir_1 = True

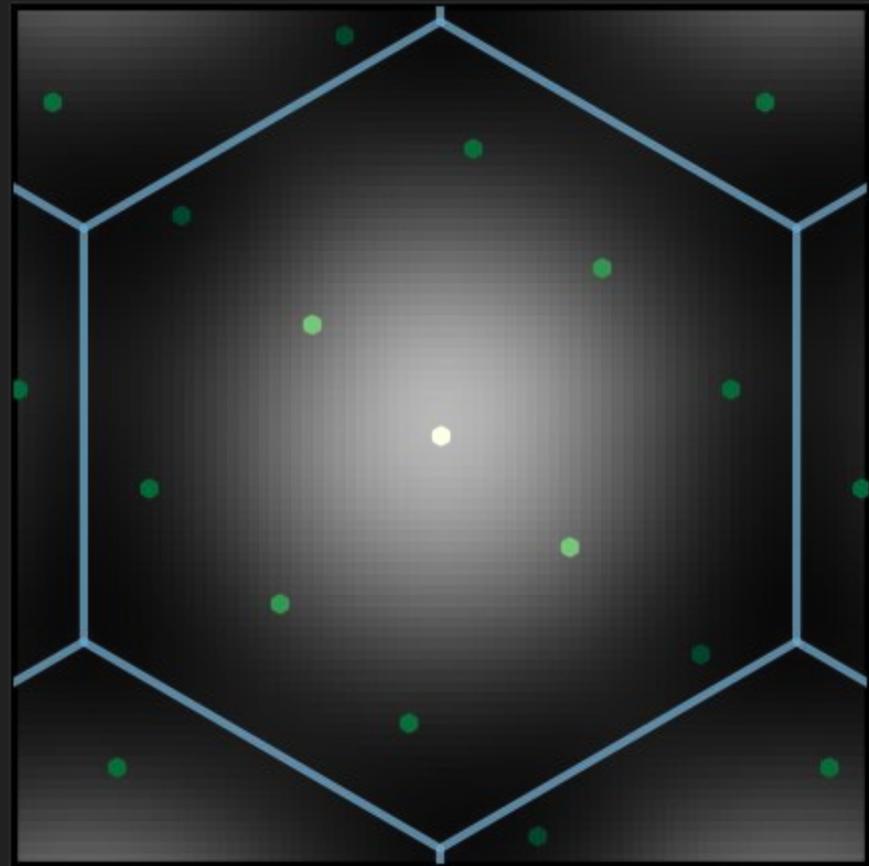
Rmax_max_search = 14

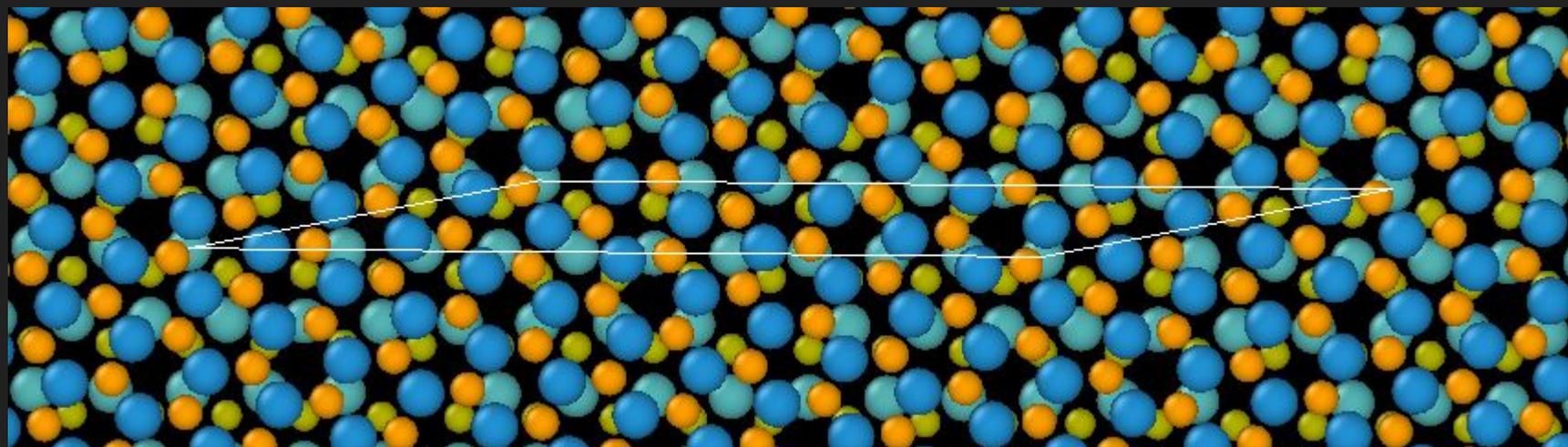
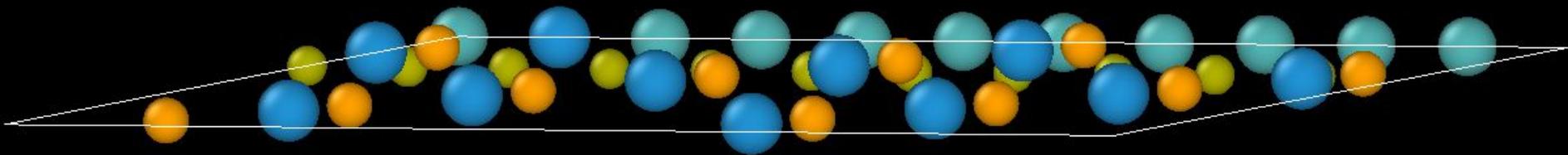
max_iter_twist_search = 5

Total atoms: 66

Mo count: 11

W count: 11





40 degree

twist_min_search = 40

twist_max_search = 40.1

max_strain = 0.05

is_1D_dir_1 = True

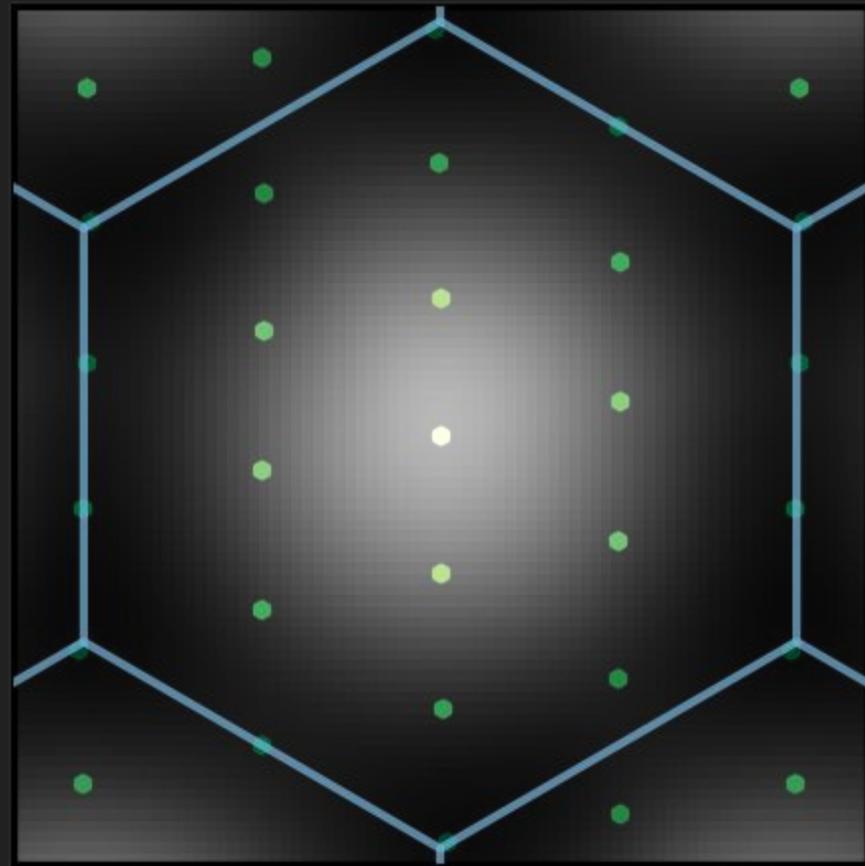
Rmax_max_search = 16

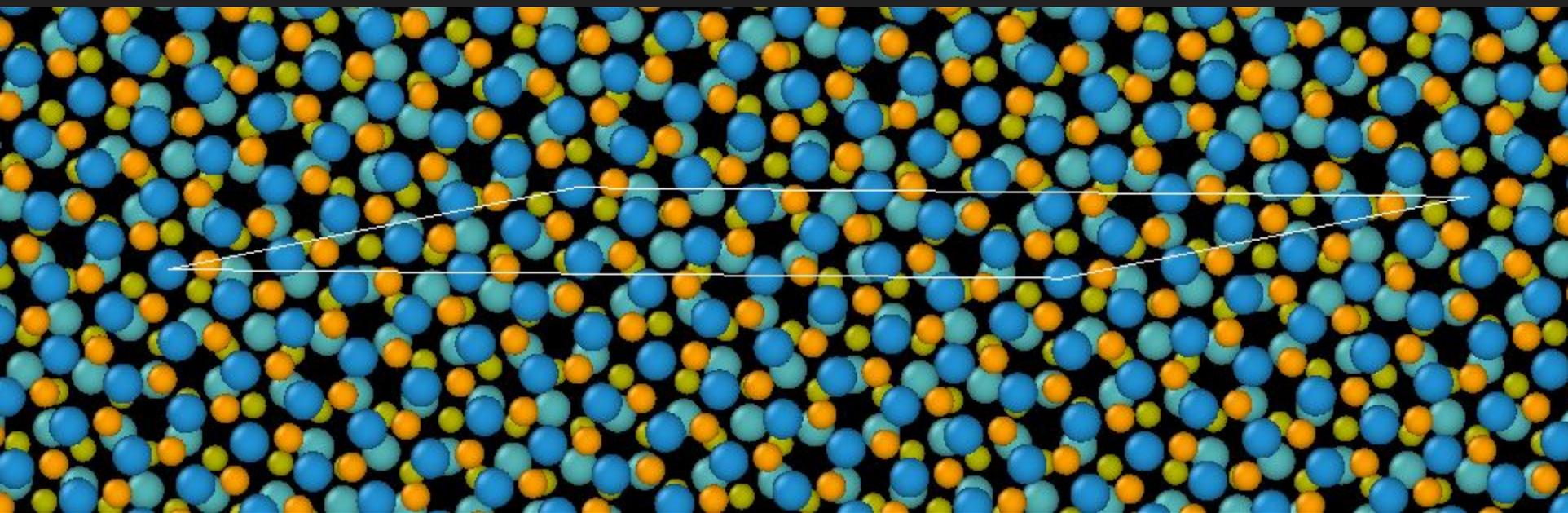
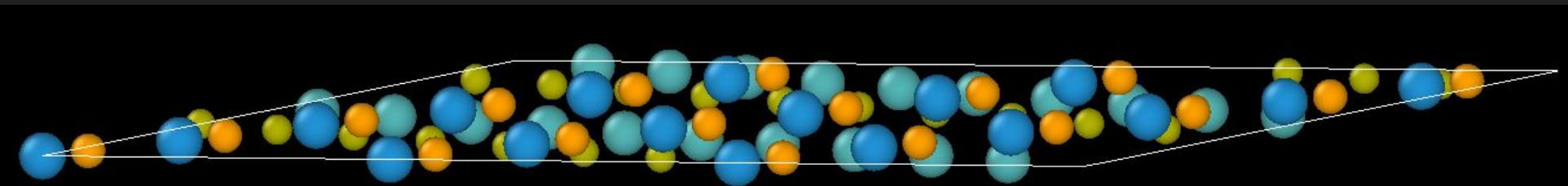
max_iter_twist_search = 5

Total atoms: 117

Mo count: 21

W count: 18





45 degree

twist_min_search = 45

twist_max_search = 45.1

max_strain = 0.05

is_1D_dir_1 = True

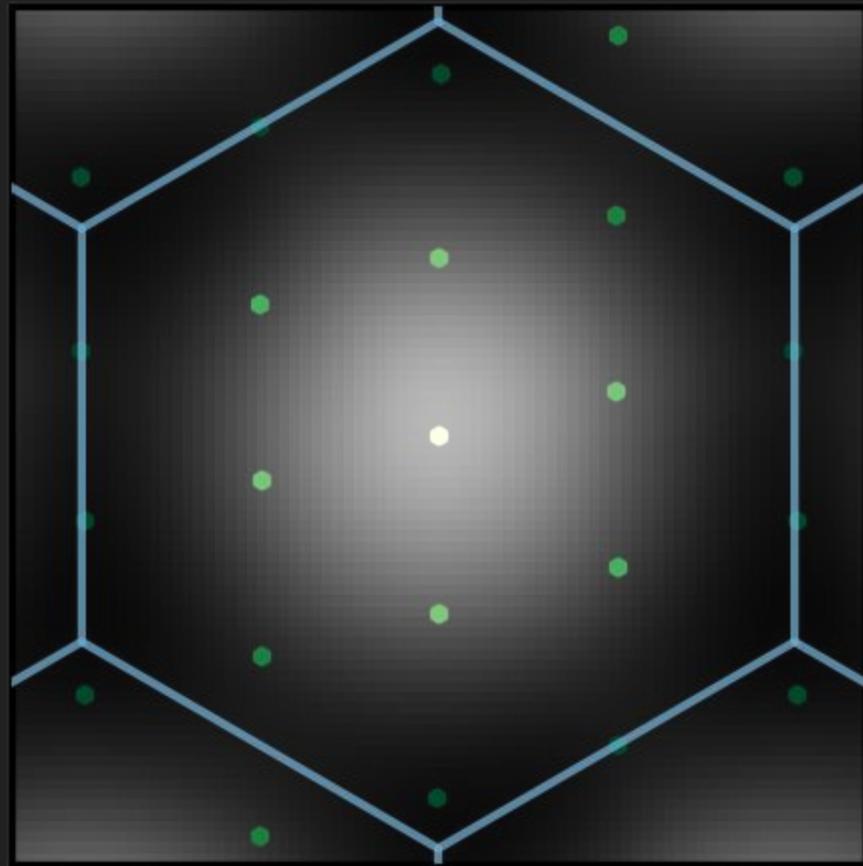
Rmax_max_search = 16

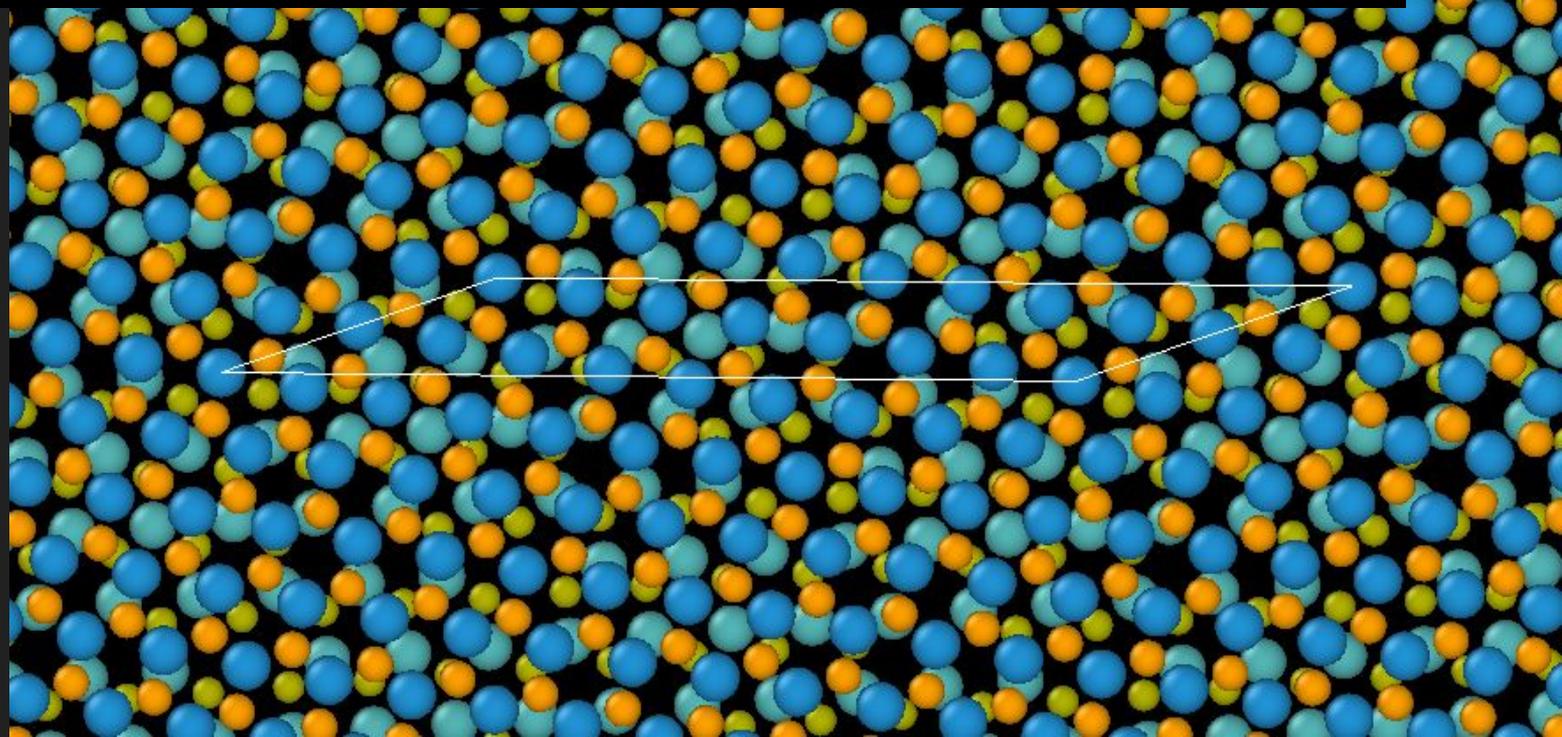
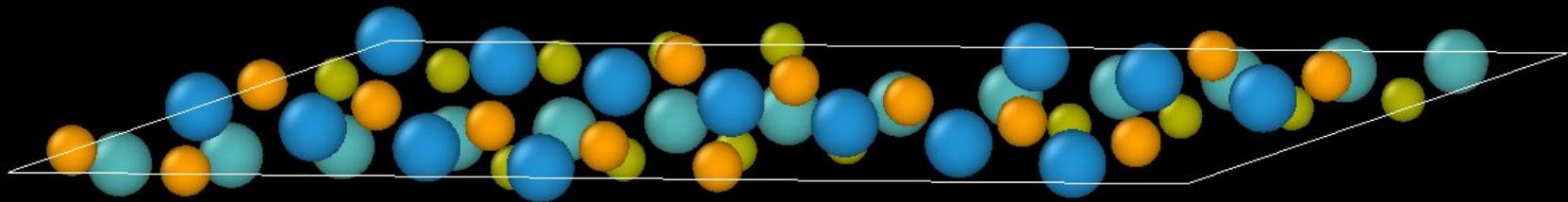
max_iter_twist_search = 5

Total atoms: 84

Mo count: 14

W count: 14





50 degree

twist_min_search = 50

twist_max_search = 50.1

max_strain = 0.05

is_1D_dir_1 = True

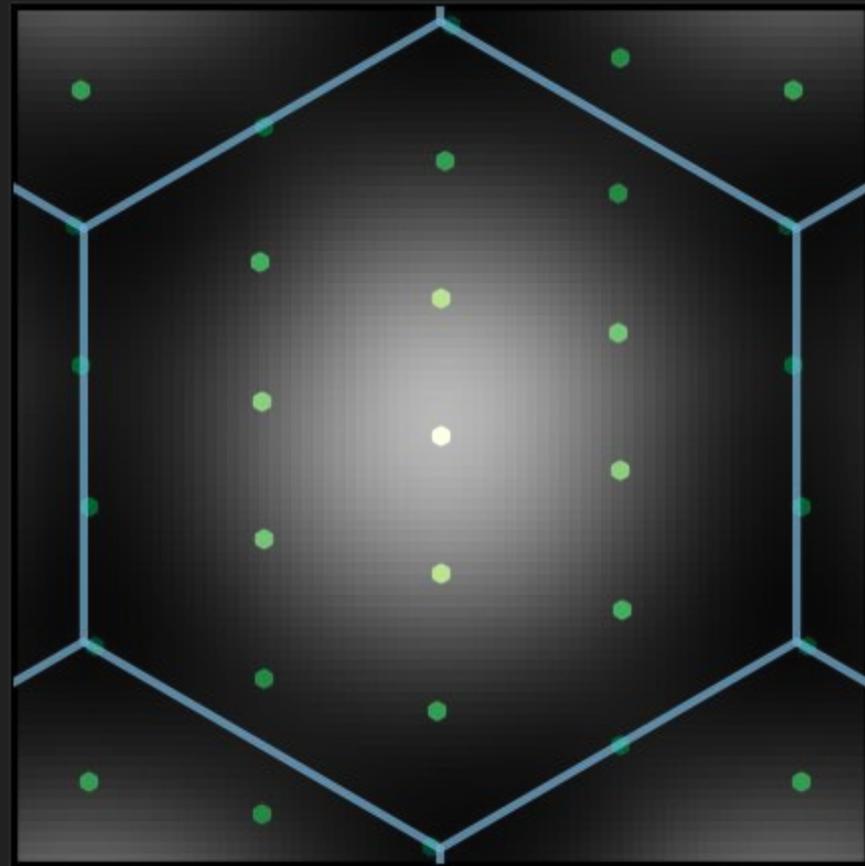
Rmax_max_search = 16

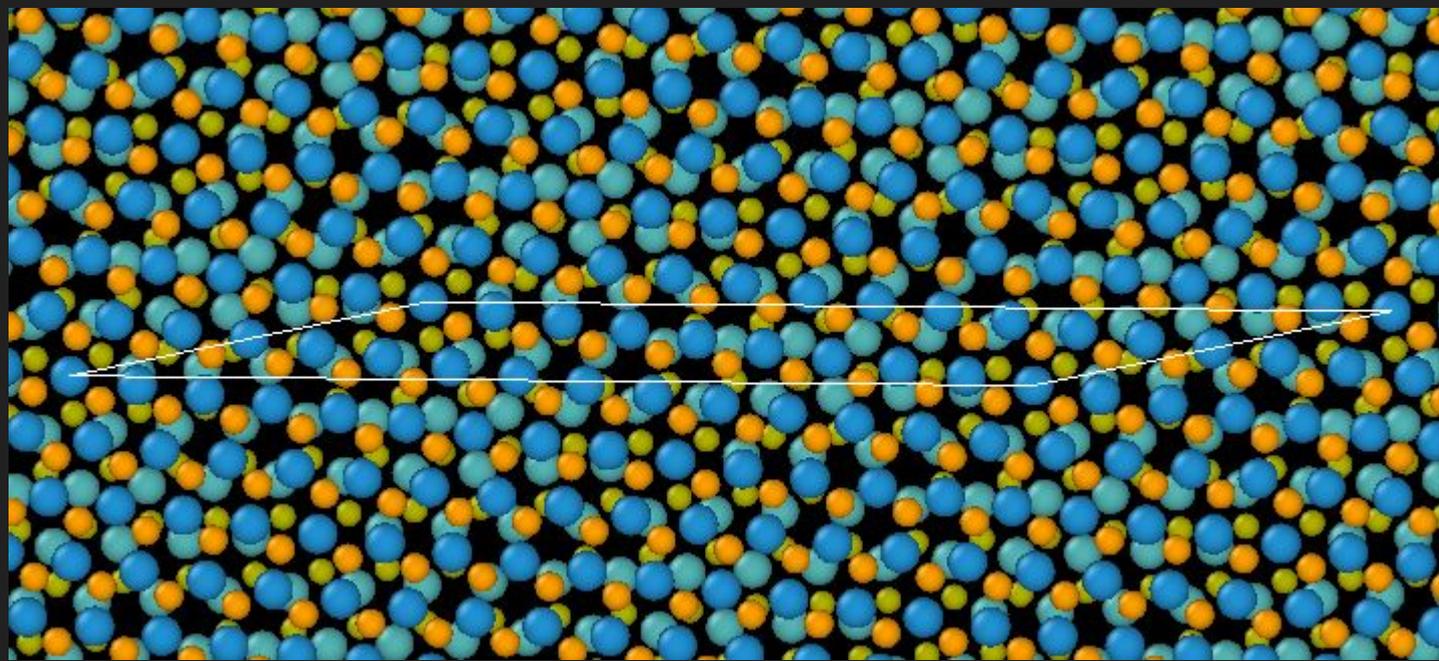
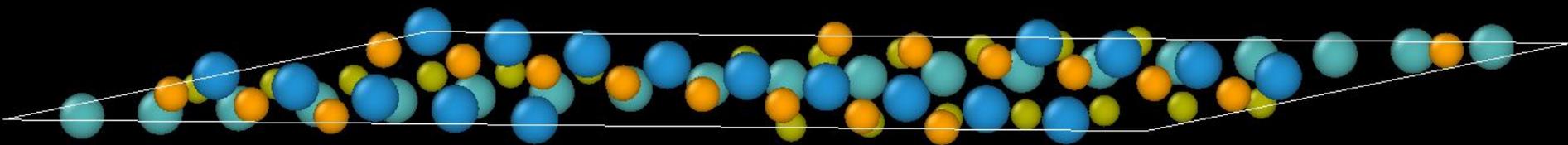
max_iter_twist_search = 5

Total atoms: 114

Mo count: 20

W count: 18





55 degree

twist_min_search = 55

twist_max_search = 55.1

max_strain = 0.01

is_1D_dir_1 = True

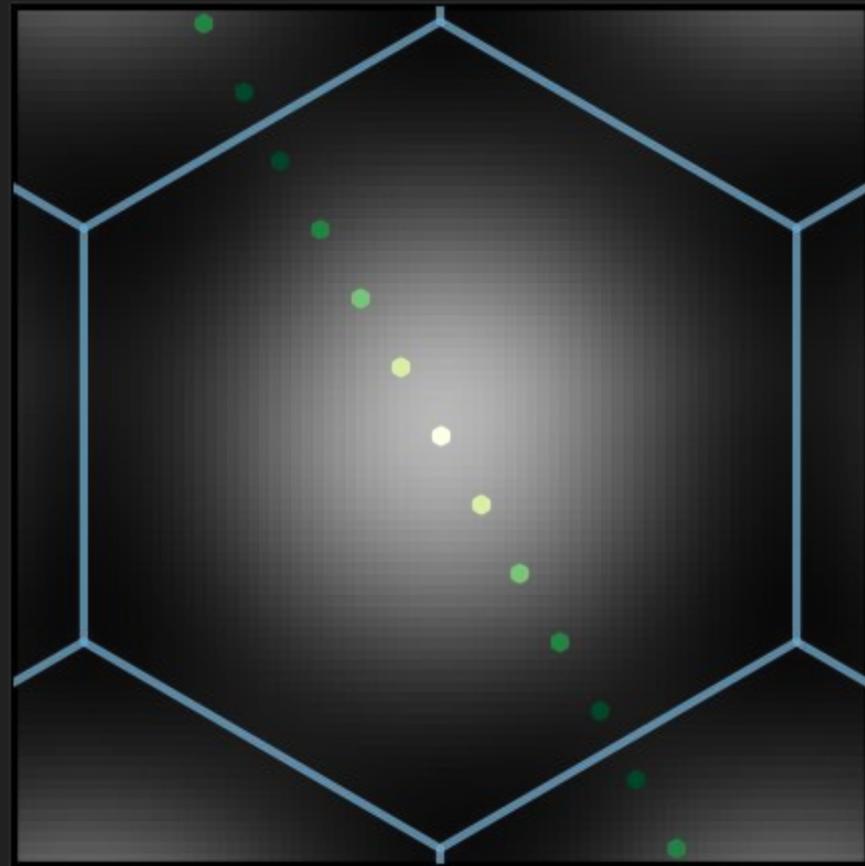
Rmax_max_search = 16

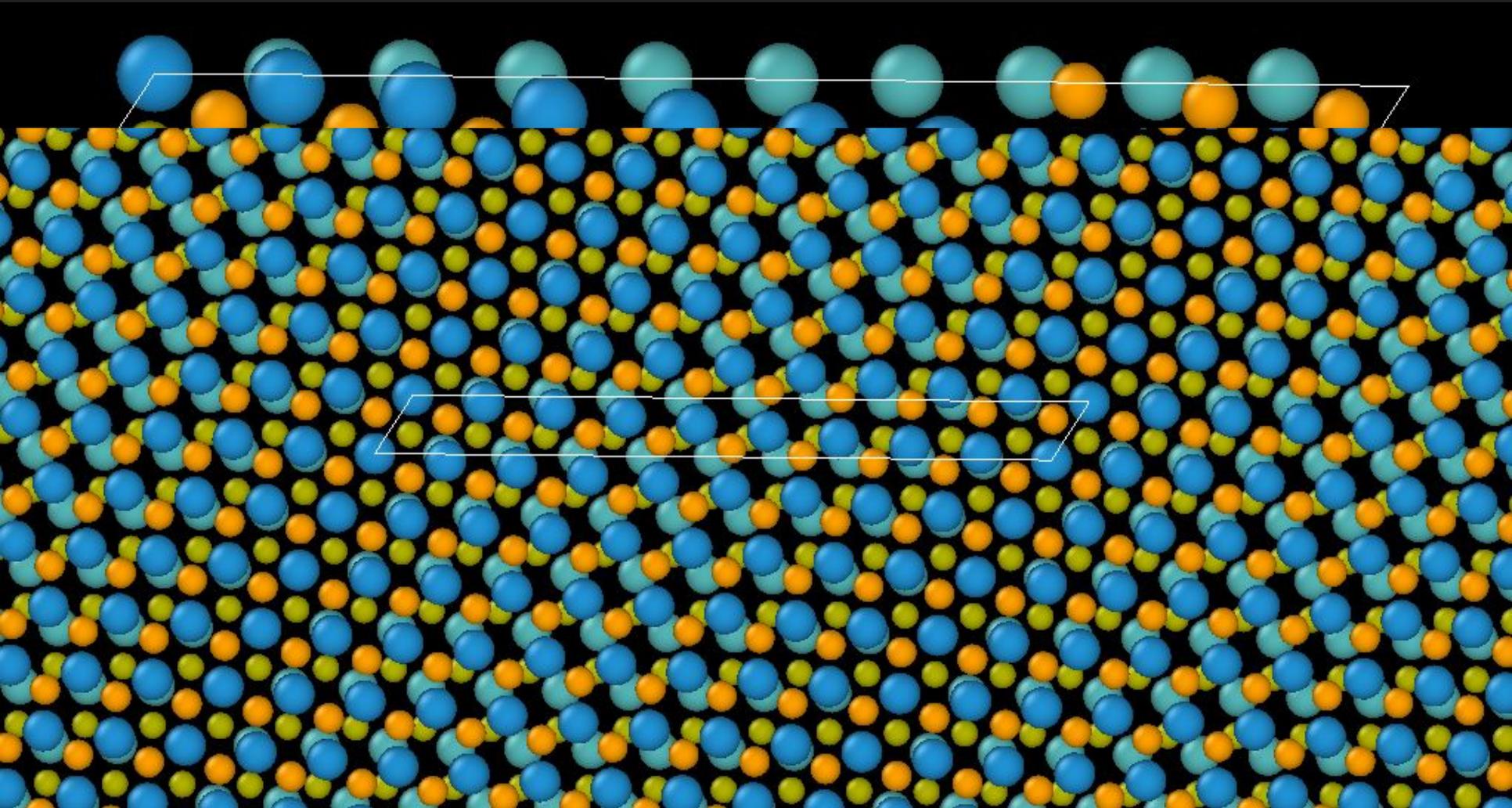
max_iter_twist_search = 5

Total atoms: 57

Mo count: 10

W count: 9





60 degree

twist_min_search = 60

twist_max_search = 60.1

max_strain = 0.05

is_1D_dir_1 = True

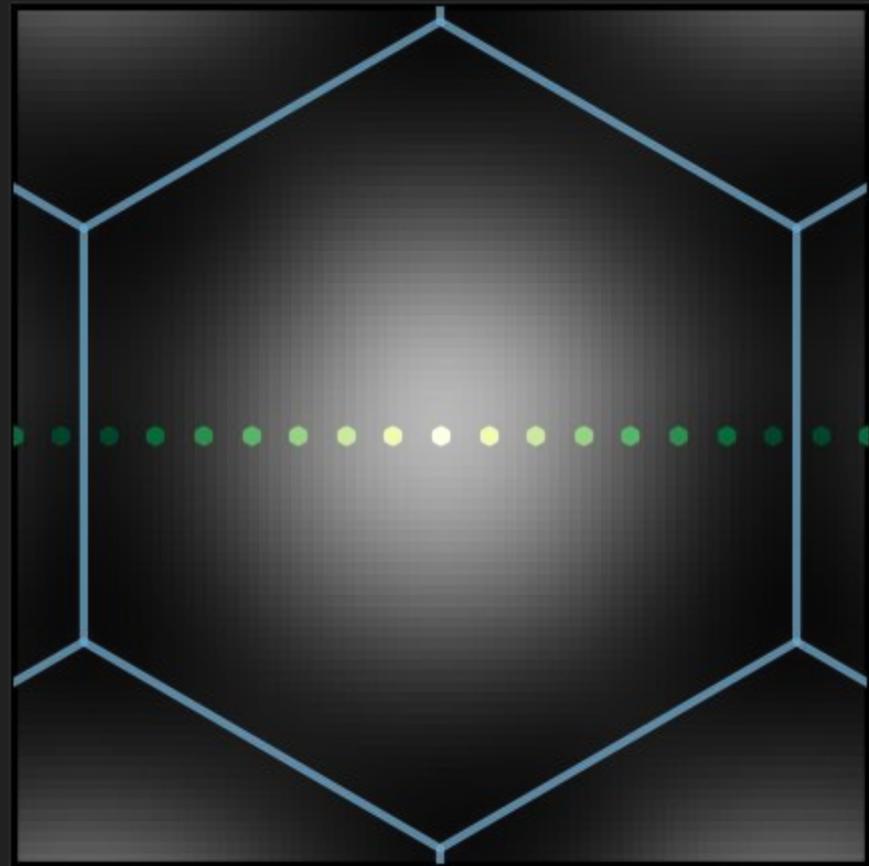
Rmax_max_search = 16

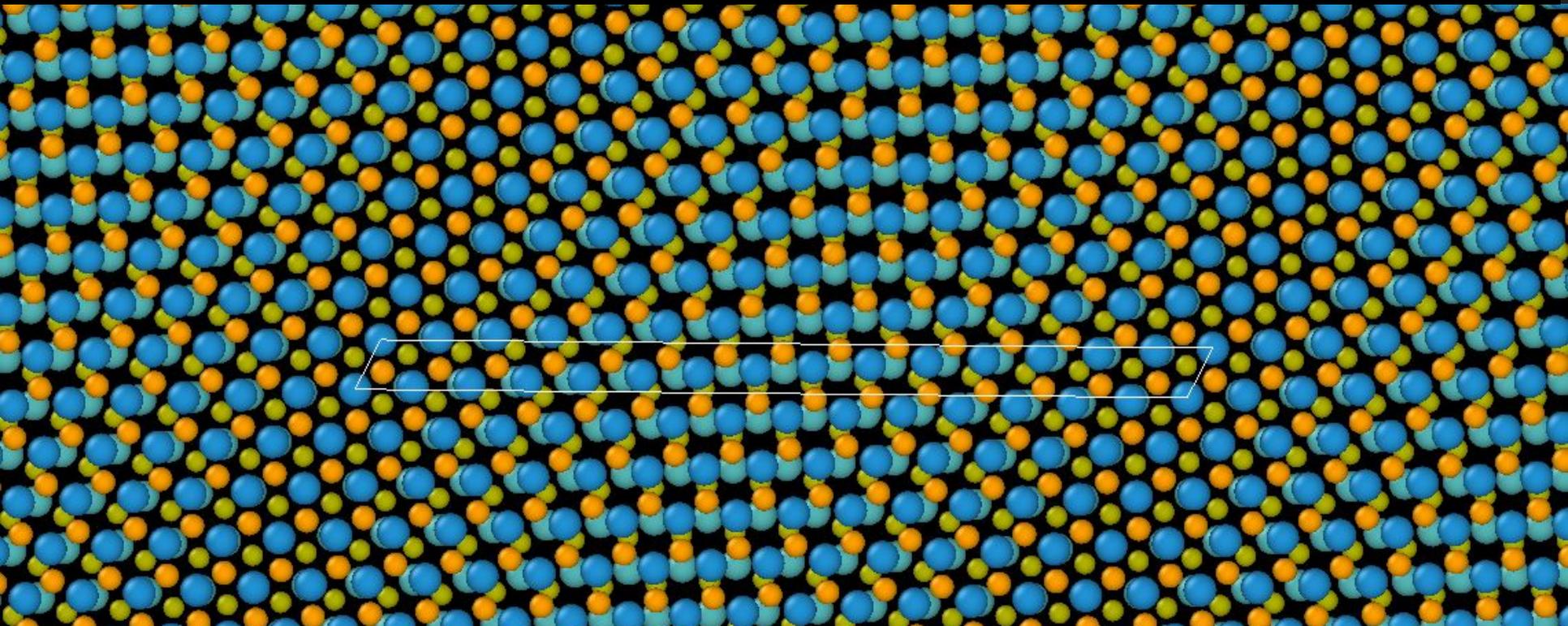
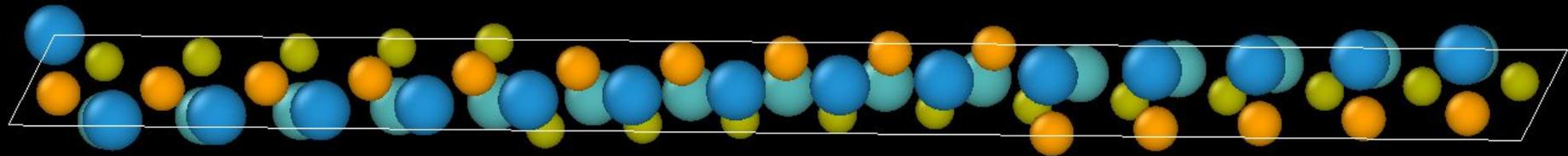
max_iter_twist_search = 5

Total atoms: 93

Mo count: 16

W count: 15





65 degree

twist_min_search = 65

twist_max_search = 65.1

max_strain = 0.02

is_1D_dir_1 = True

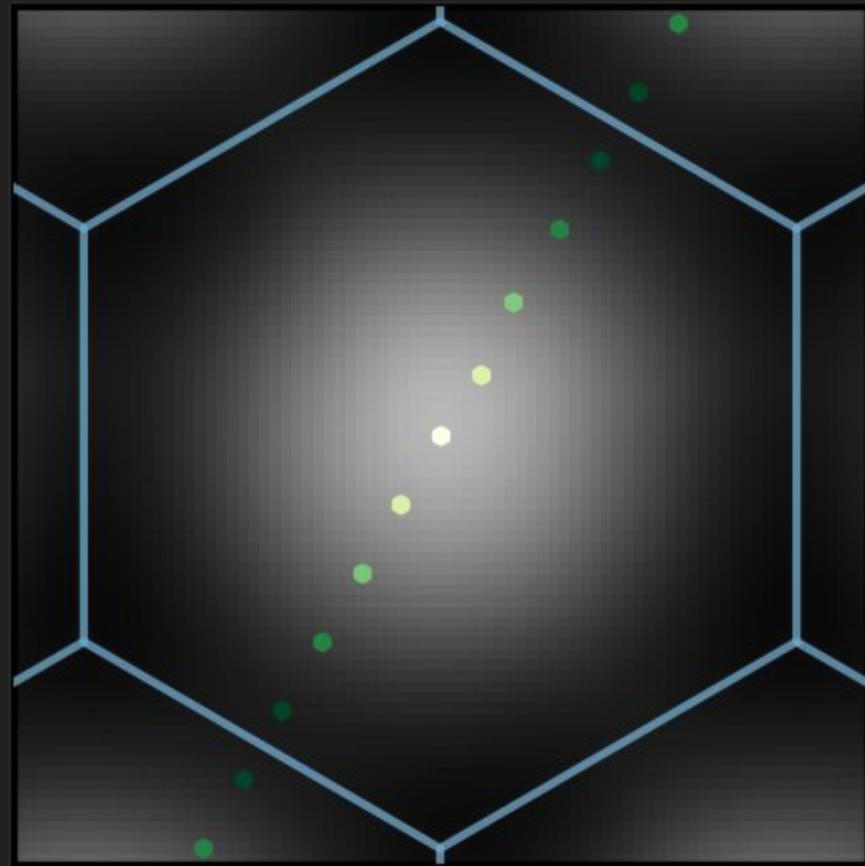
Rmax_max_search = 14

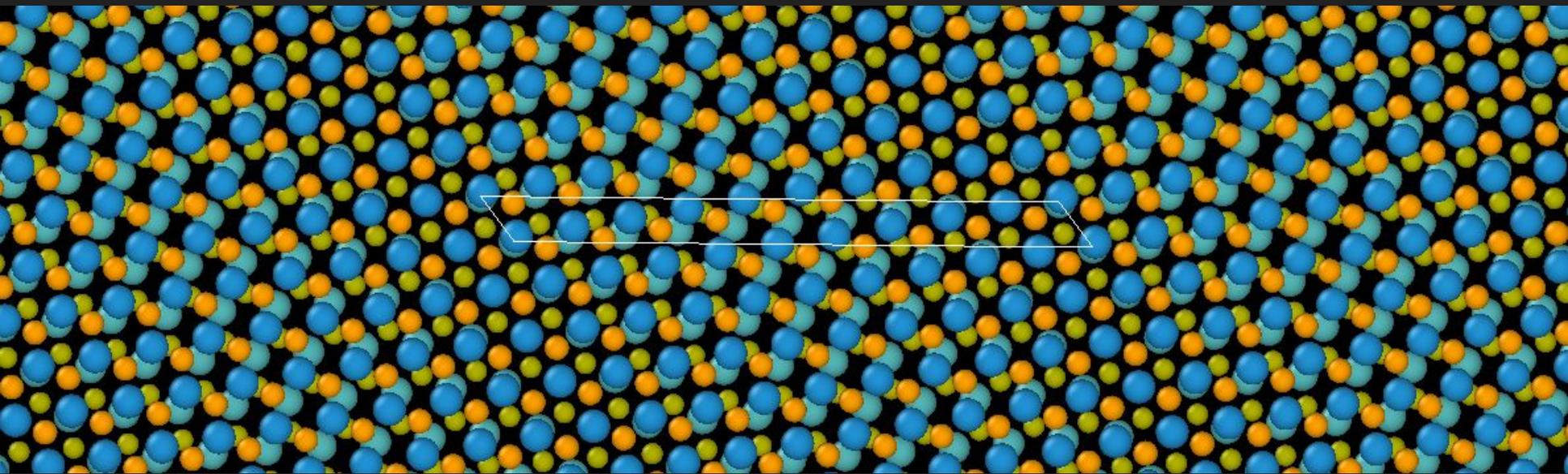
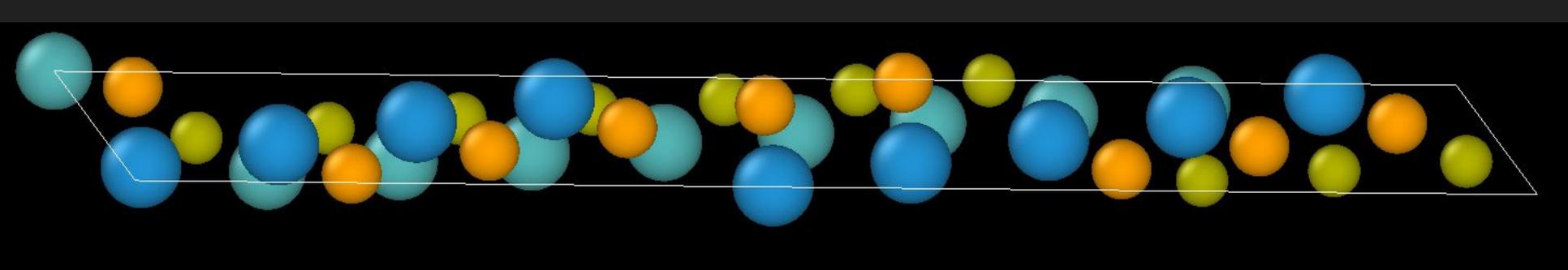
max_iter_twist_search = 5

Total atoms: 57

Mo count: 10

W count: 9





70 degree

twist_min_search = 70

twist_max_search = 70.1

max_strain = 0.02

is_1D_dir_1 = True

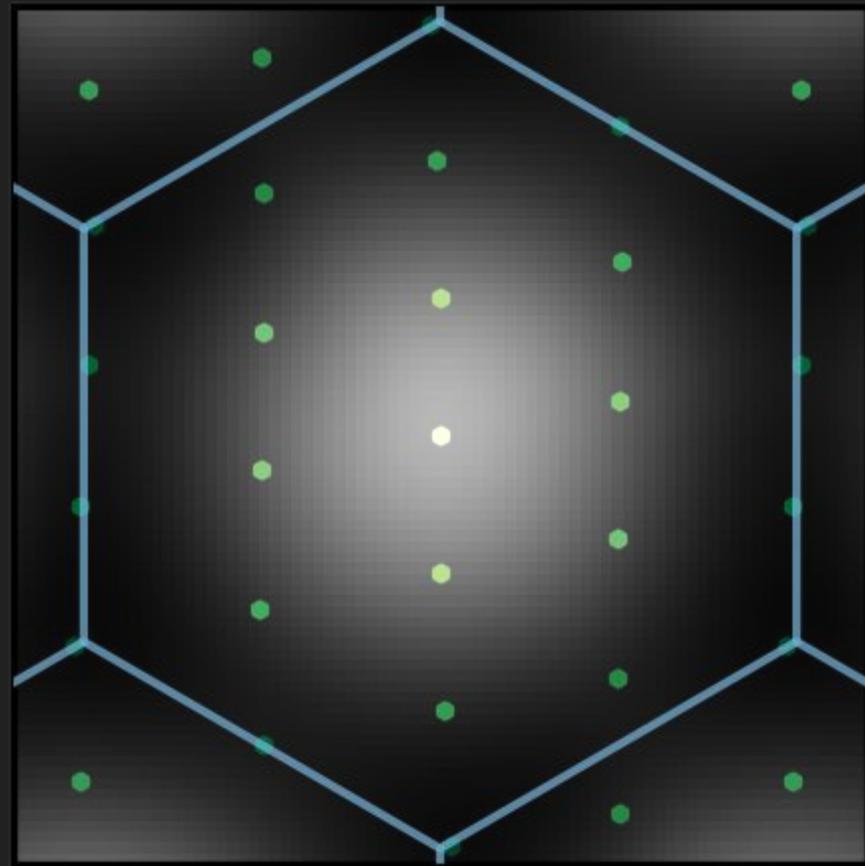
Rmax_max_search = 16

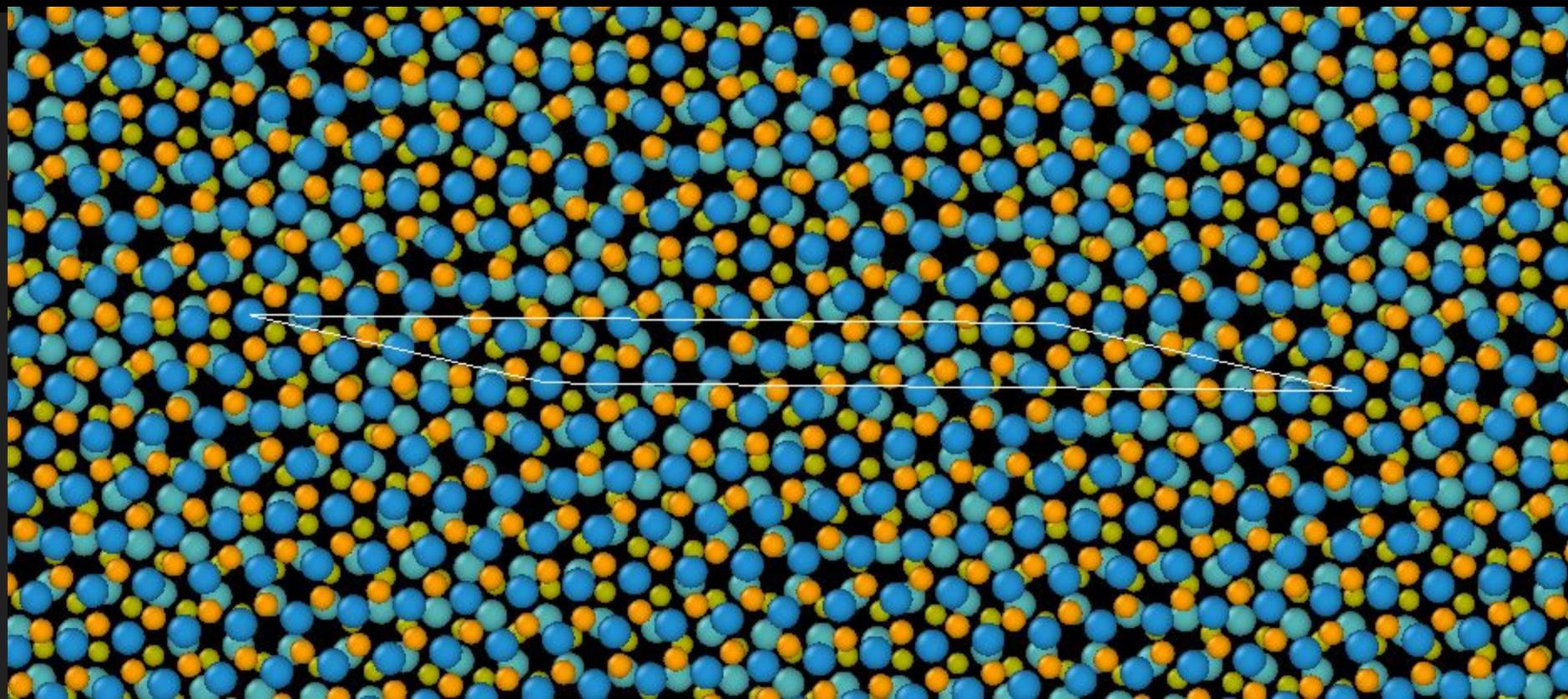
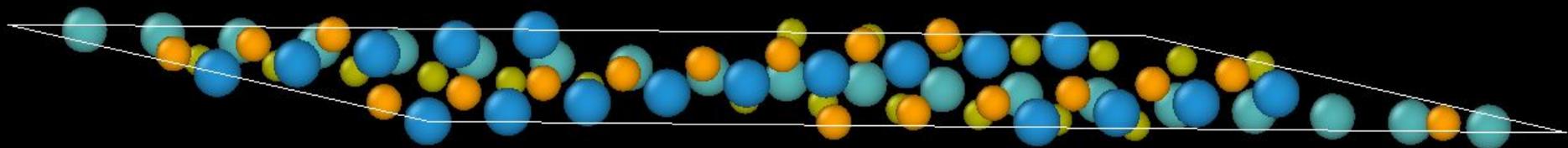
max_iter_twist_search = 5

Total atoms: 114

Mo count: 20

W count: 18





75 degree

twist_min_search = 75

twist_max_search = 75.1

max_strain = 0.02

is_1D_dir_1 = True

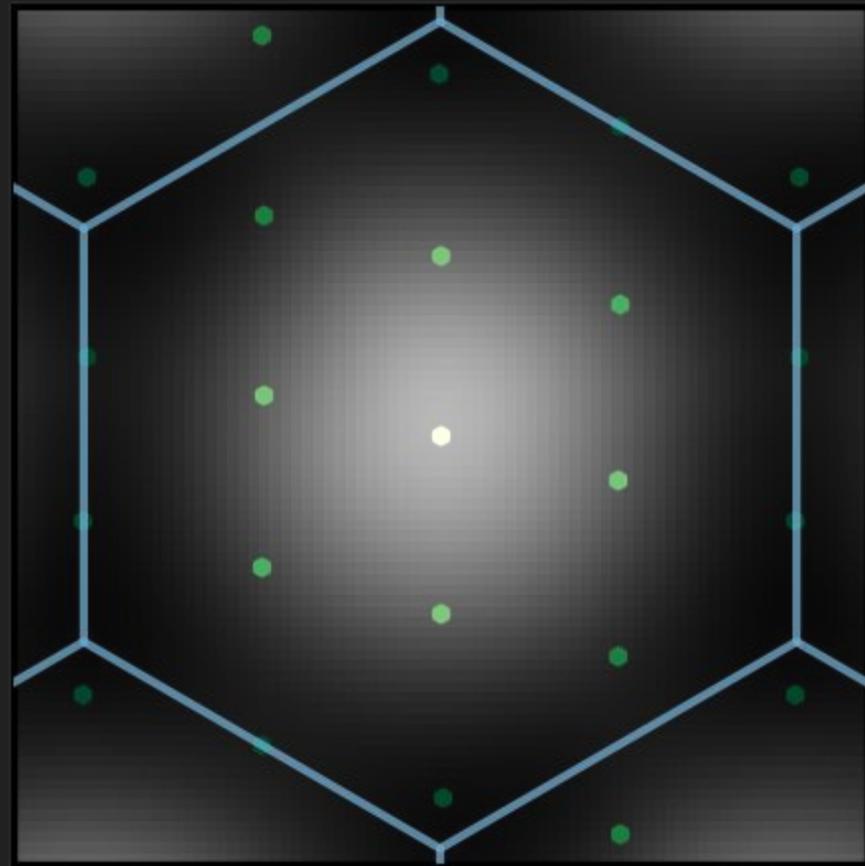
Rmax_max_search = 16

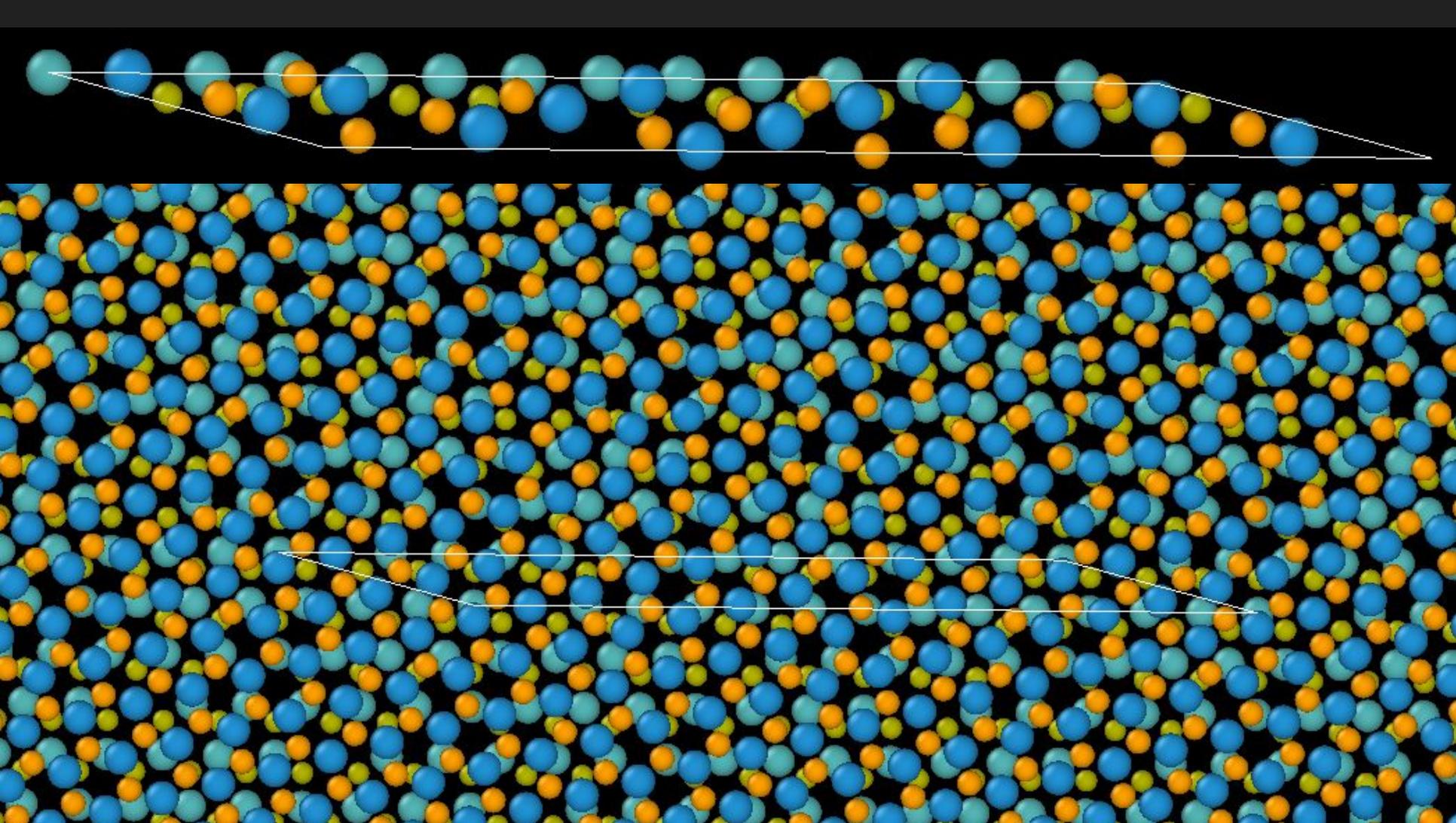
max_iter_twist_search = 5

Total atoms: 84

Mo count: 14

W count: 14





80 degree

twist_min_search = 80

twist_max_search = 80.1

max_strain = 0.01

is_1D_dir_1 = True

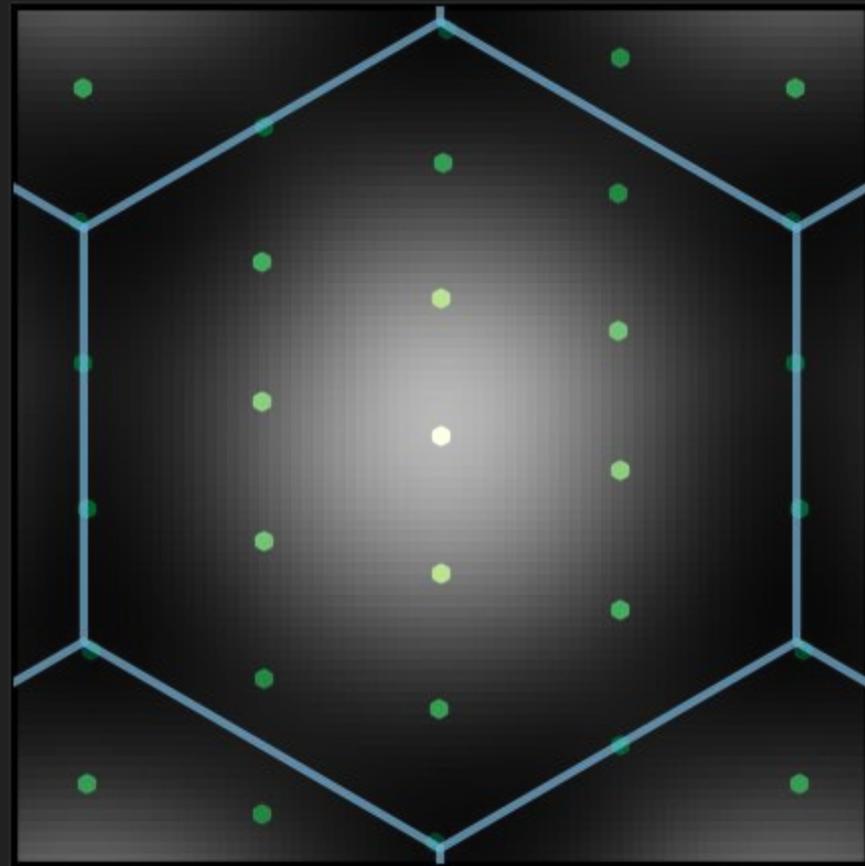
Rmax_max_search = 16

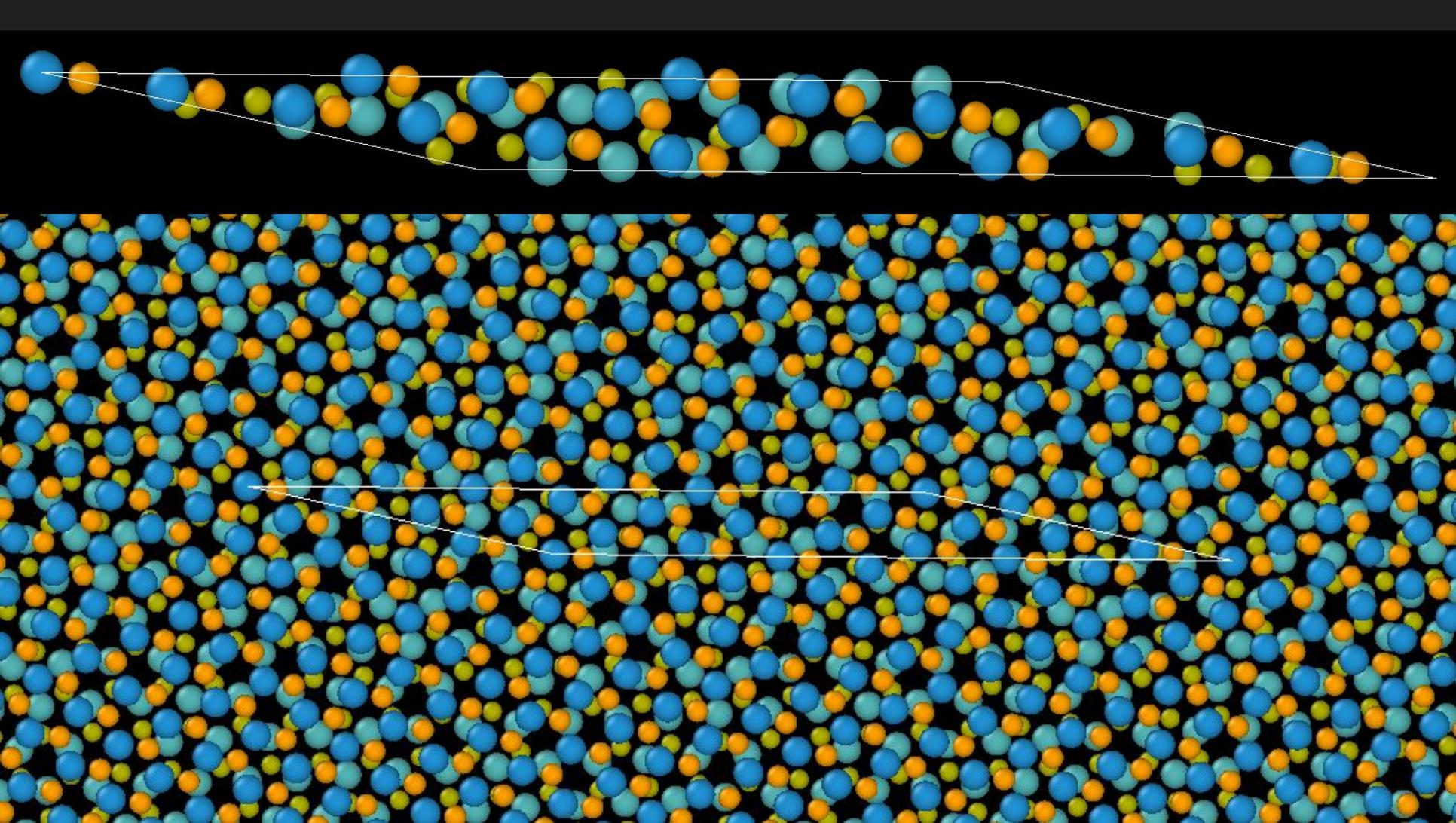
max_iter_twist_search = 5

Total atoms: 117

Mo count: 21

W count: 18





85 degree

twist_min_search = 85

twist_max_search = 85.1

max_strain = 0.02

is_1D_dir_1 = True

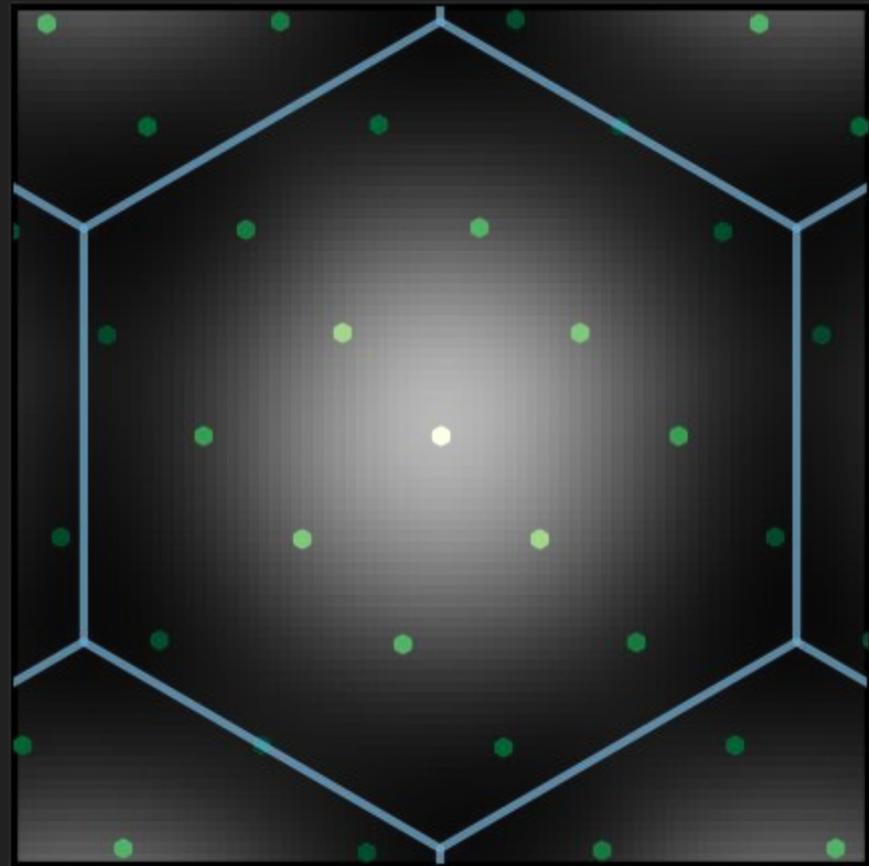
Rmax_max_search = 16

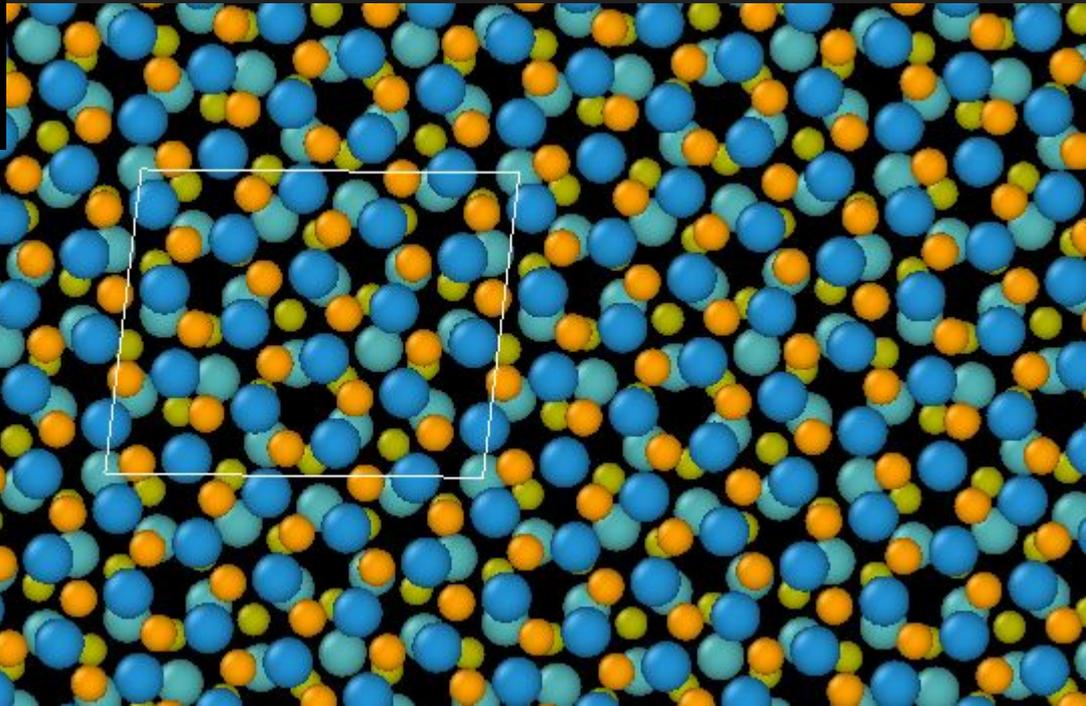
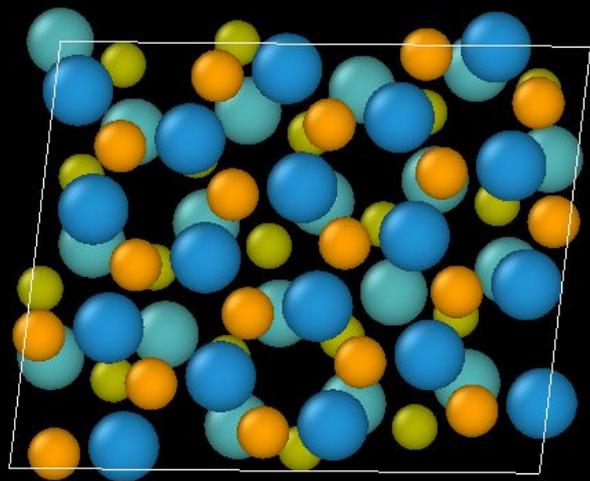
max_iter_twist_search = 5

Total atoms: 111

Mo count: 19

W count: 18





90 degree

twist_min_search = 90

twist_max_search = 90.1

max_strain = 0.02

is_1D_dir_1 = True

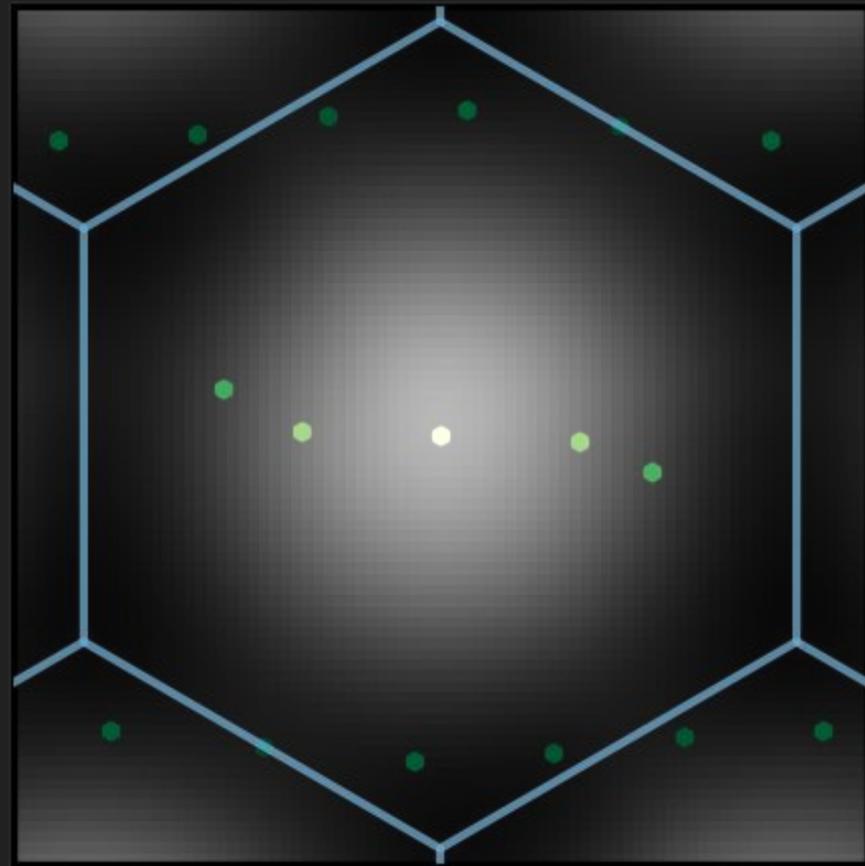
Rmax_max_search = 16

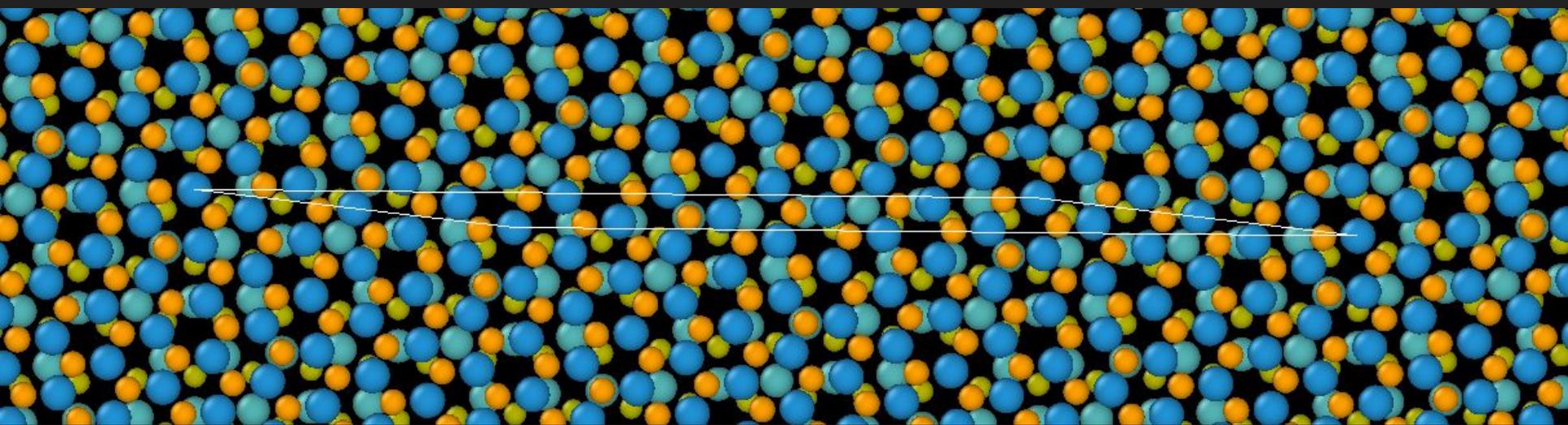
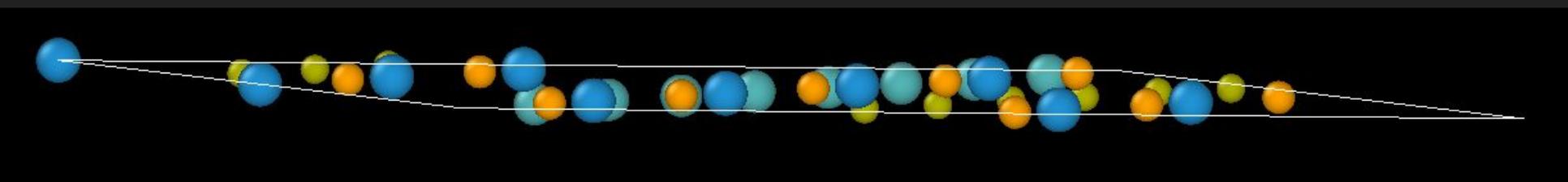
max_iter_twist_search = 5

Total atoms: 57

Mo count: 9

W count: 10





95 degree

twist_min_search = 95

twist_max_search = 95.1

max_strain = 0.02

is_1D_dir_1 = True

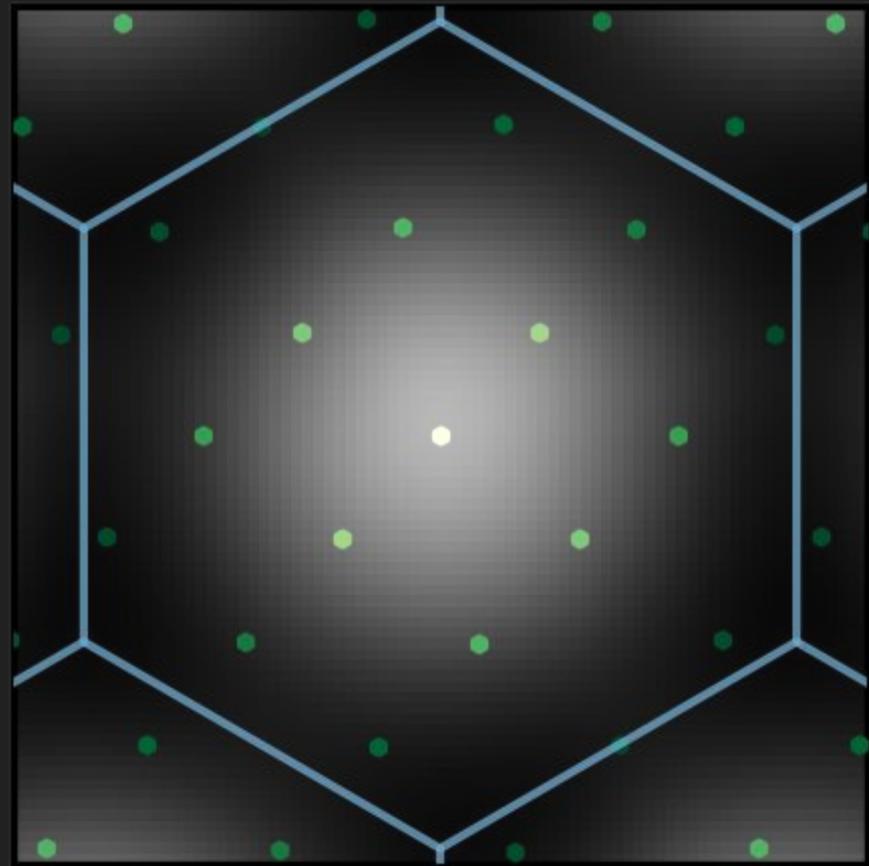
Rmax_max_search = 16

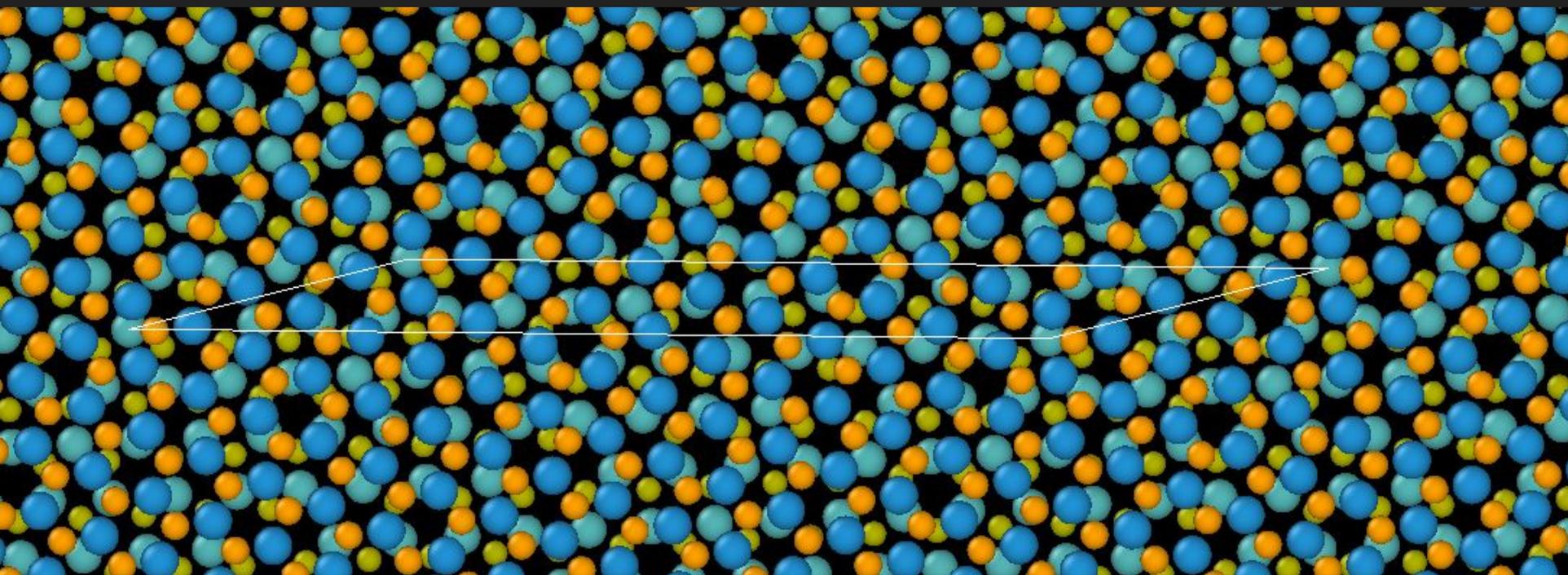
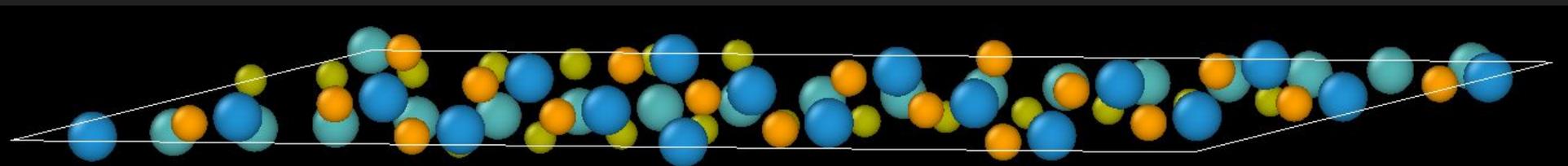
max_iter_twist_search = 5

Total atoms: 111

Mo count: 19

W count: 18





Pre-Relaxation

0 degree

twist_min_search = 0

twist_max_search = 0.1

max_strain = 0.2

is_1D_dir_1 = True

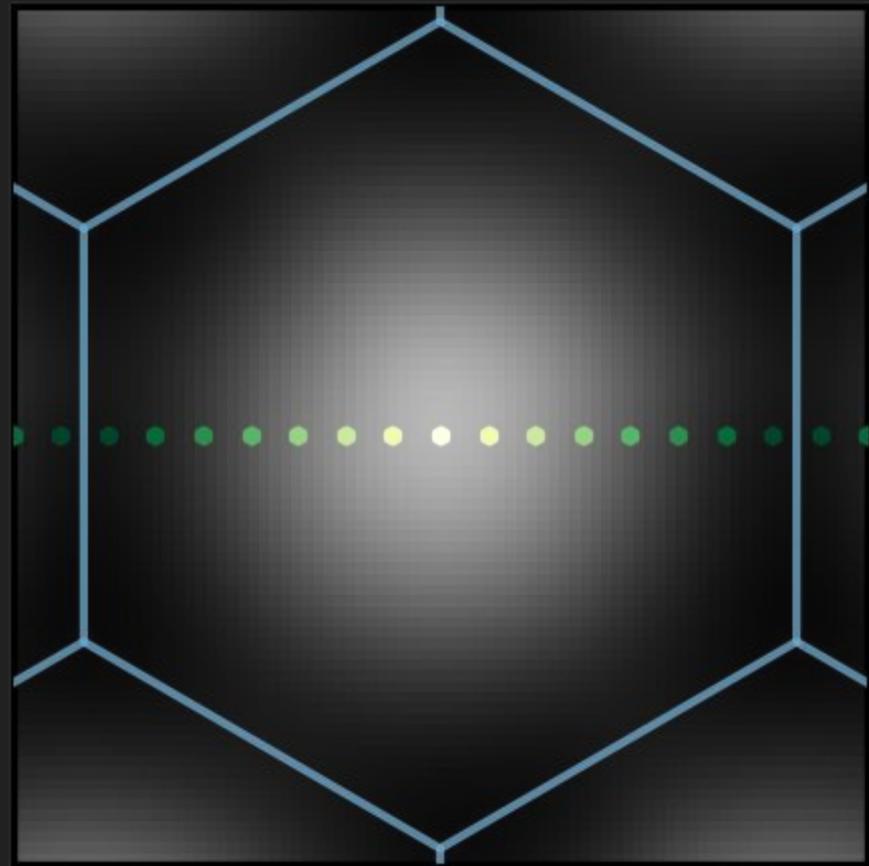
Rmax_max_search = 16

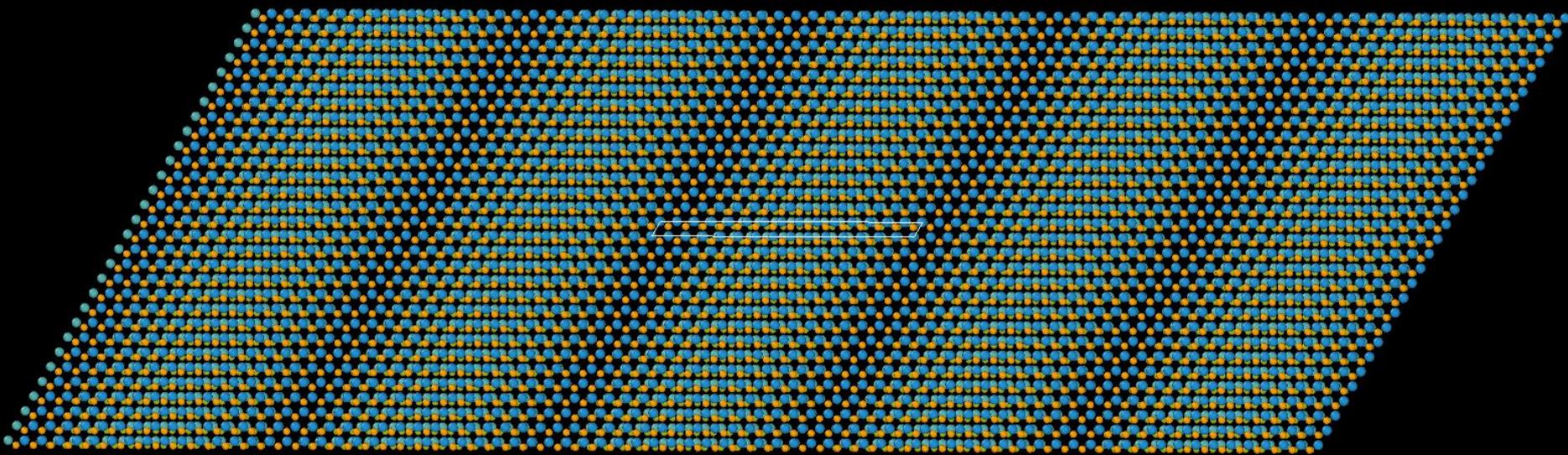
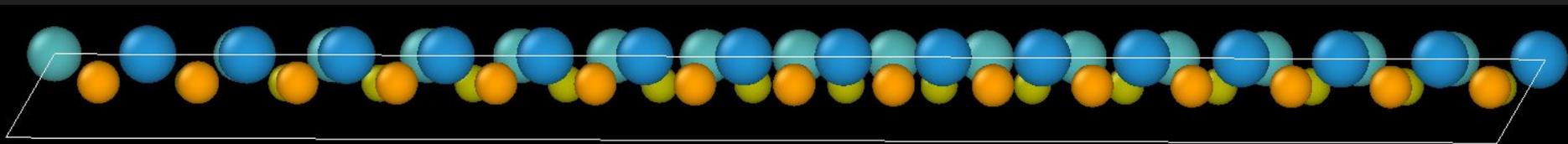
max_iter_twist_search = 5

Total atoms: 93

Mo count: 16

W count: 15





4 degree

twist_min_search = 4

twist_max_search = 4.1

max_strain = 0.1

is_1D_dir_1 = True

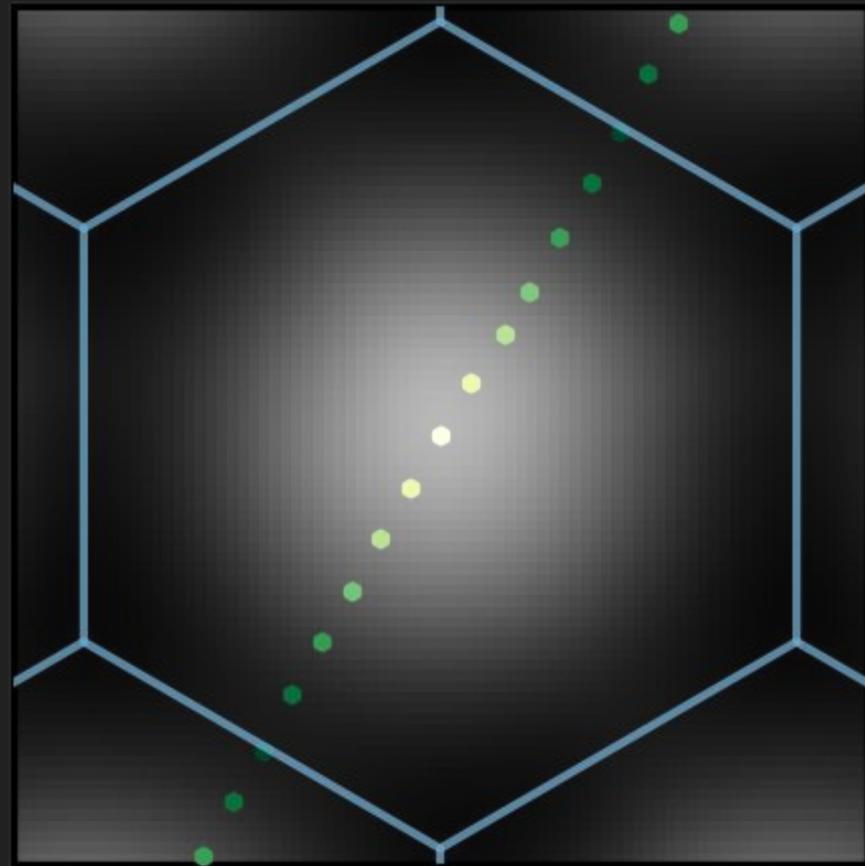
Rmax_max_search = 16

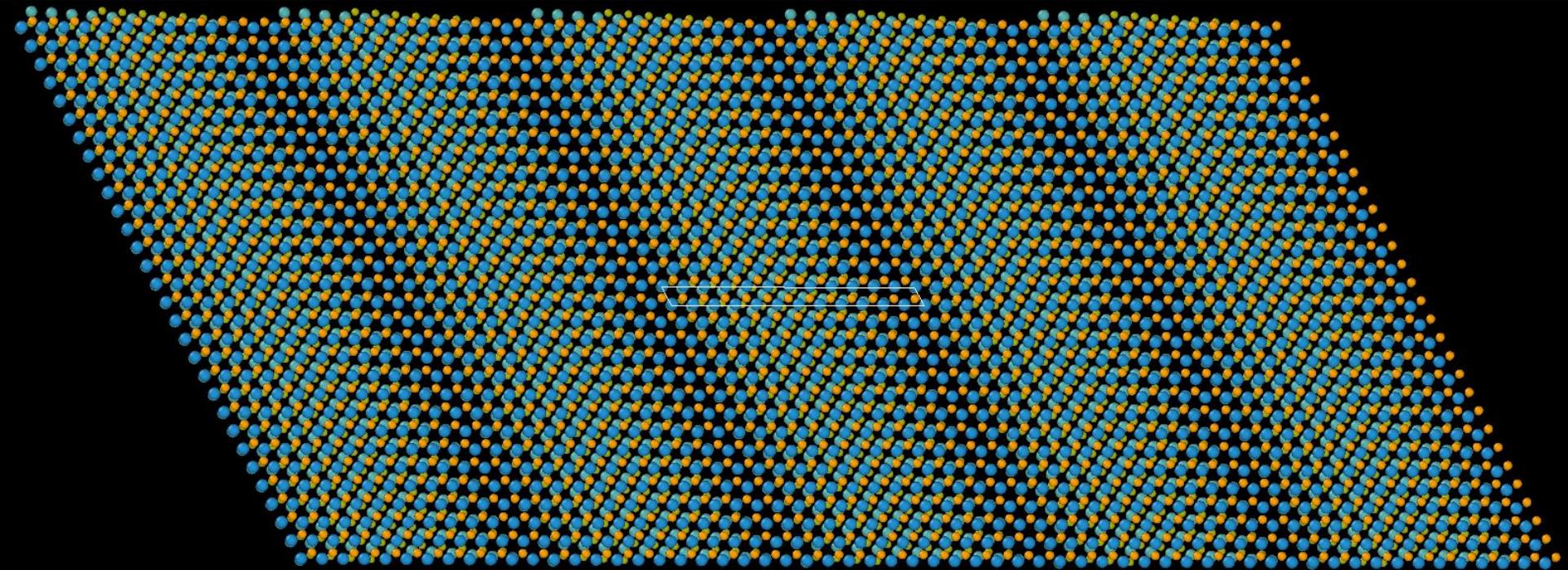
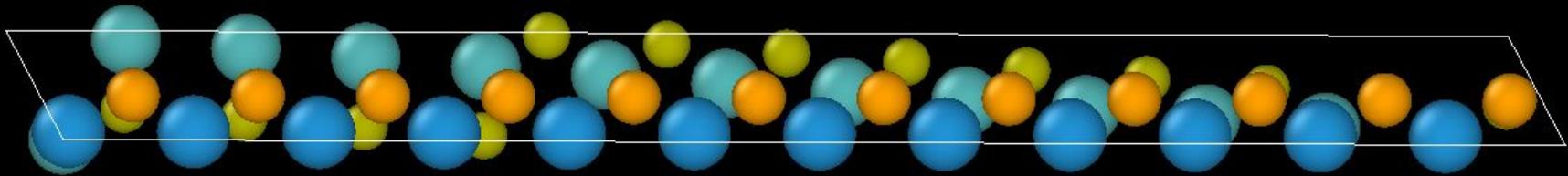
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





8 degree

twist_min_search = 8

twist_max_search = 8.1

max_strain = 0.02

is_1D_dir_1 = True

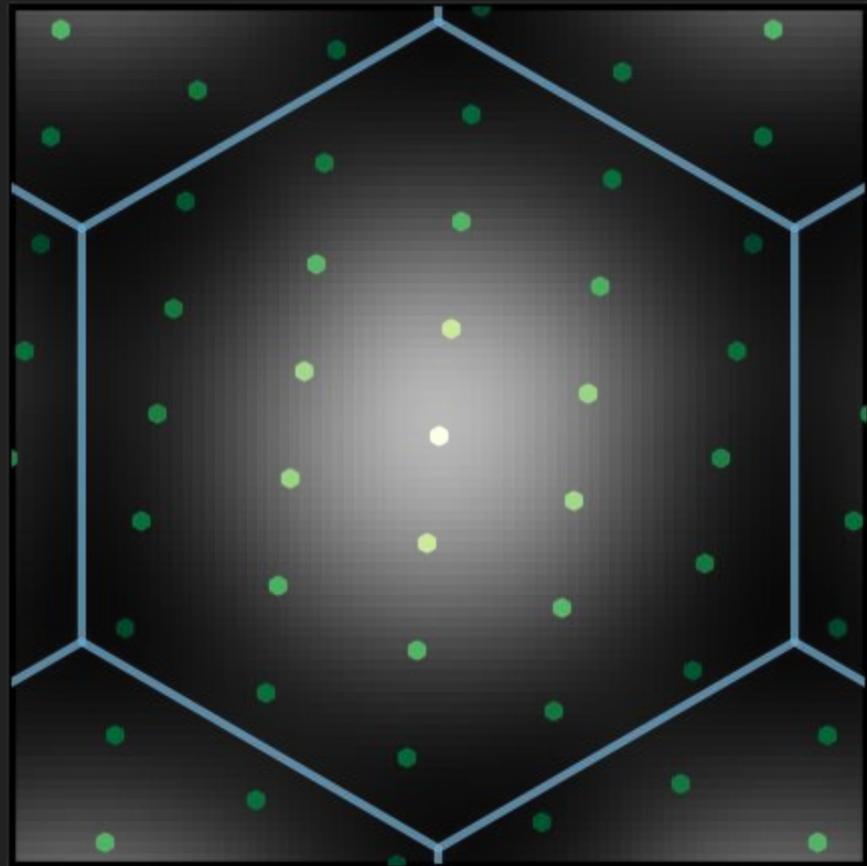
Rmax_max_search = 30

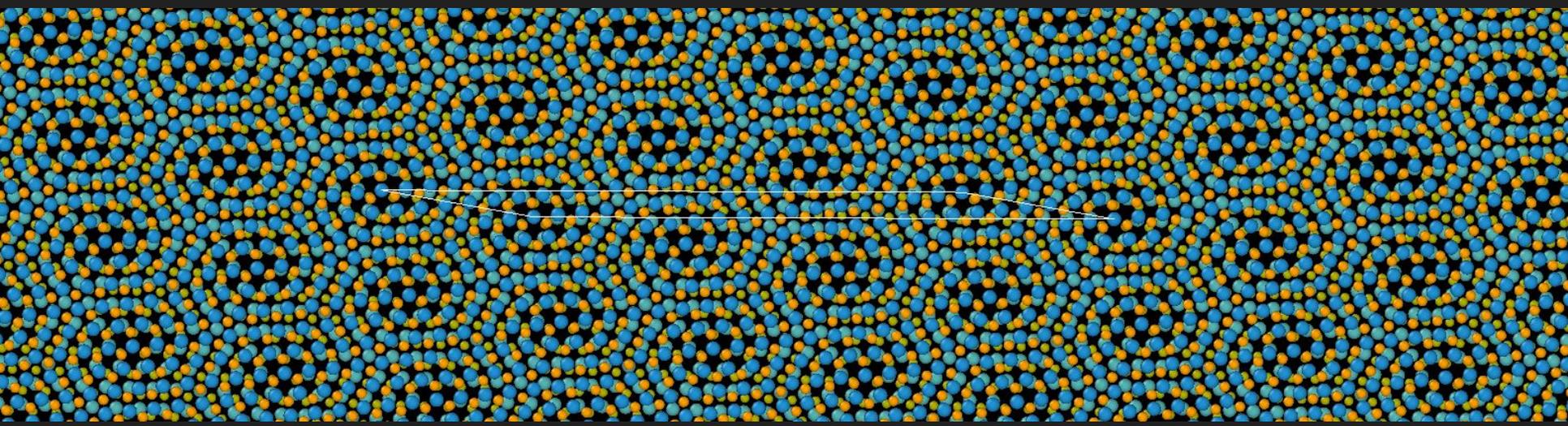
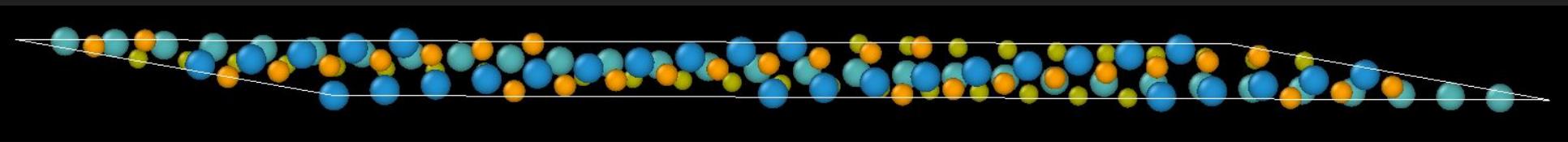
max_iter_twist_search = 5

Total atoms: 180

Mo count: 31

W count: 29





12 degrees

twist_min_search = 12

twist_max_search = 12.1

max_strain = 0.02

is_1D_dir_1 = True

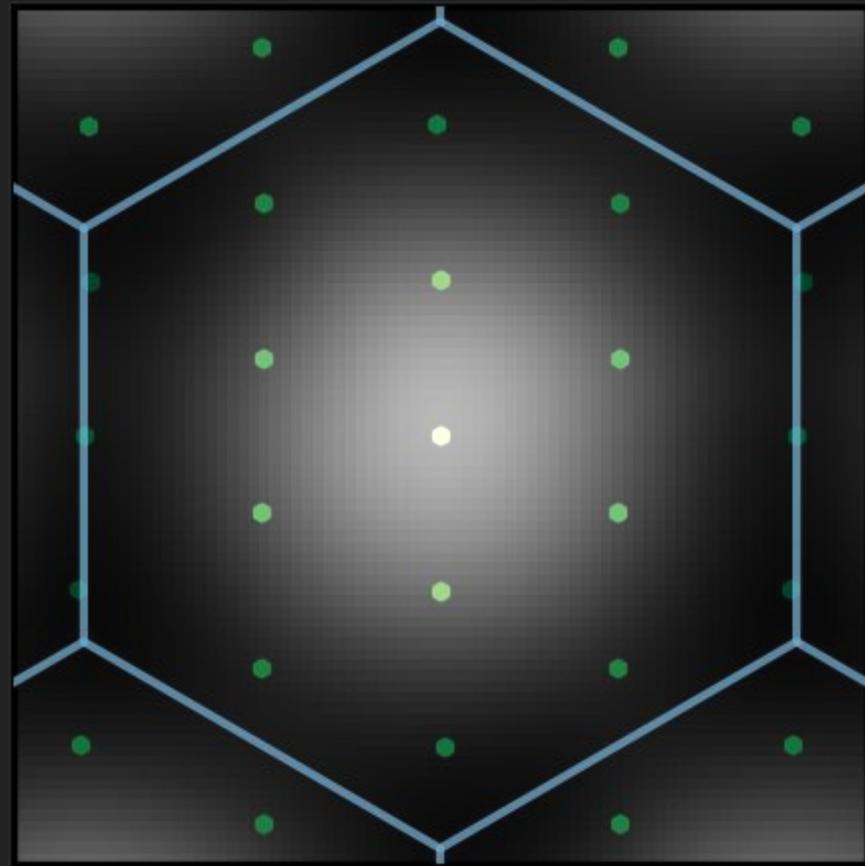
Rmax_max_search = 14

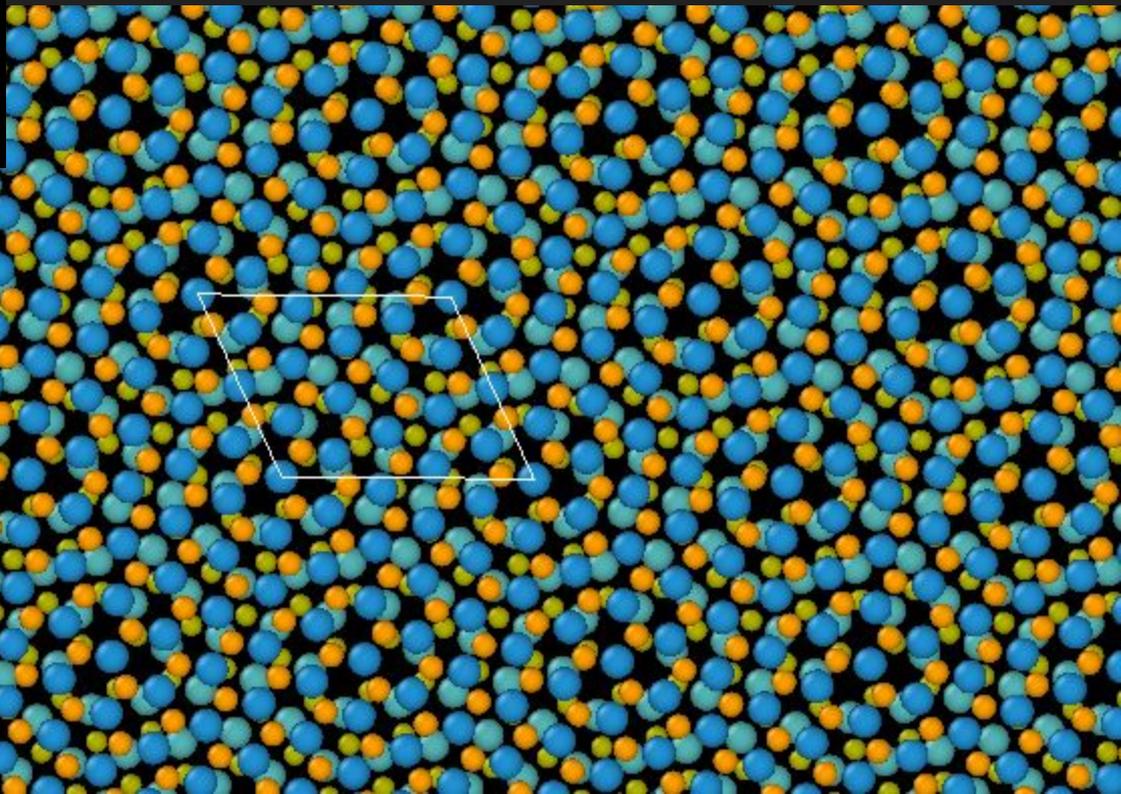
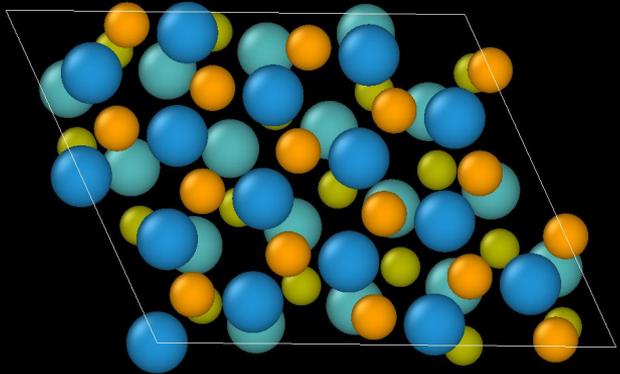
max_iter_twist_search = 5

Total atoms: 99

Mo count: 17

W count: 16





16 degree

twist_min_search = 16

twist_max_search = 16.1

max_strain = 0.1

is_1D_dir_1 = True

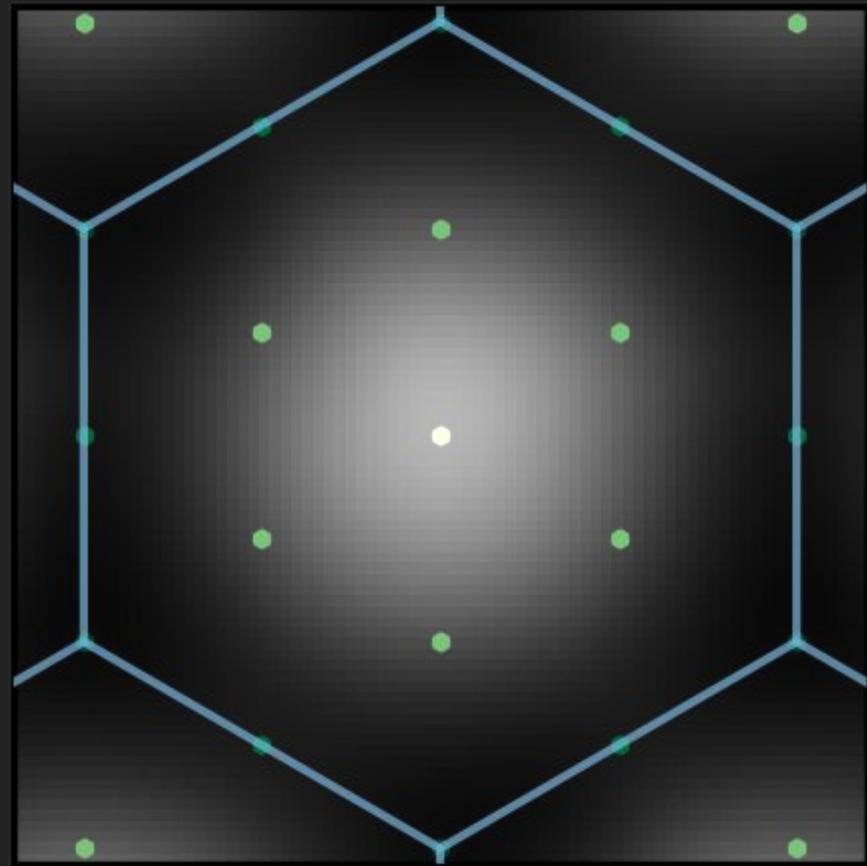
Rmax_max_search = 16

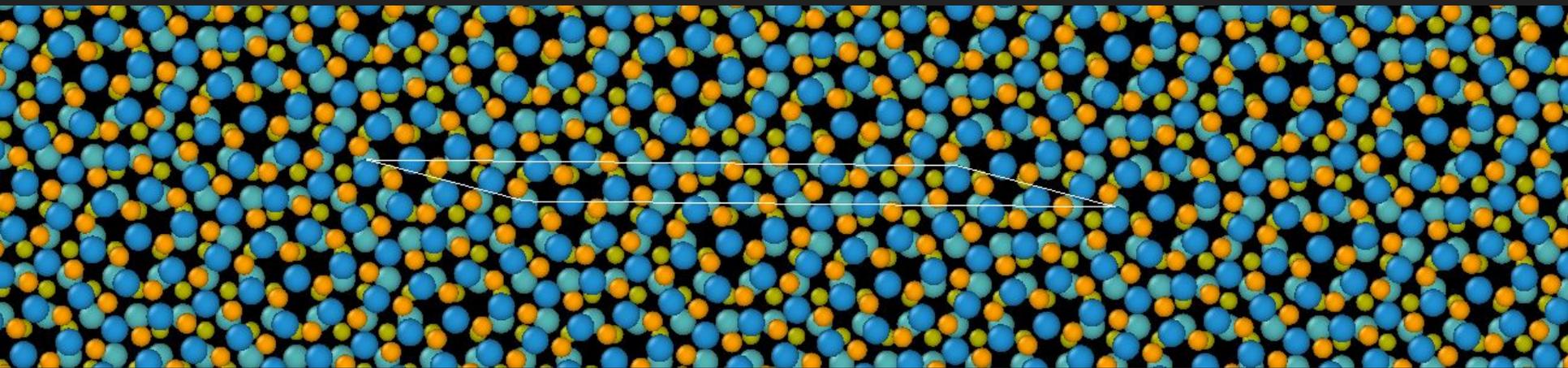
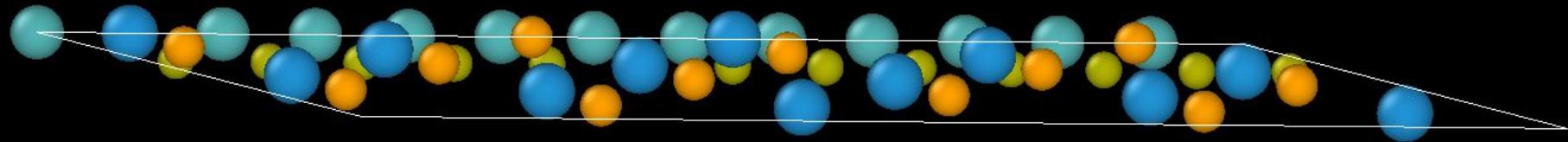
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





20 degree

twist_min_search = 20

twist_max_search = 20.1

max_strain = 0.1

is_1D_dir_1 = True

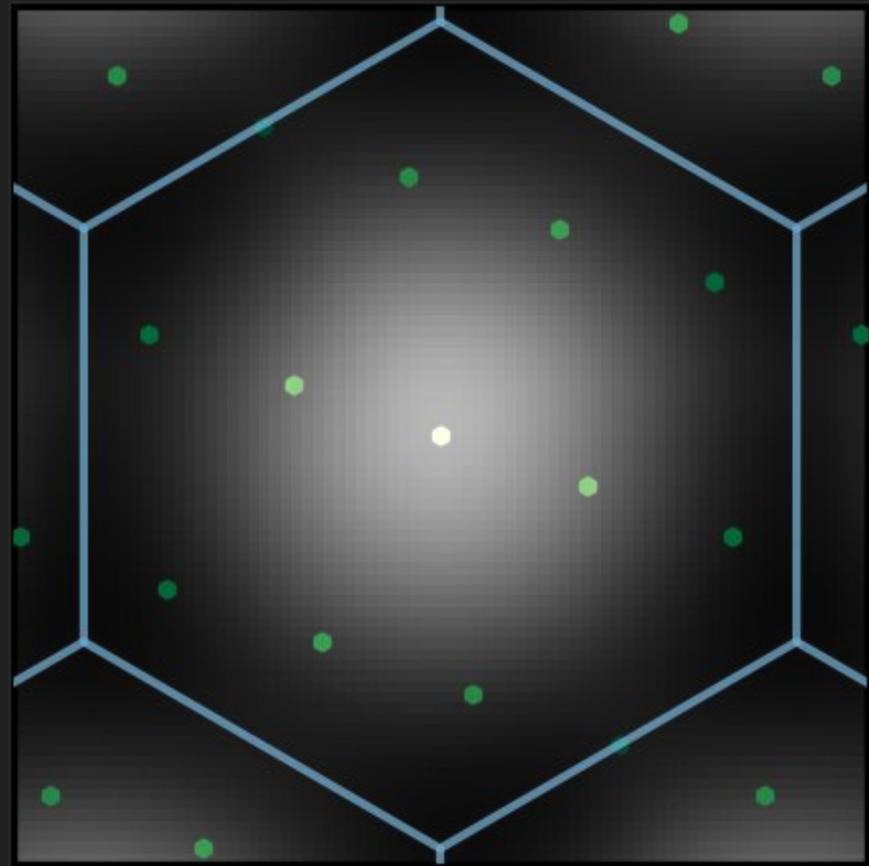
Rmax_max_search = 16

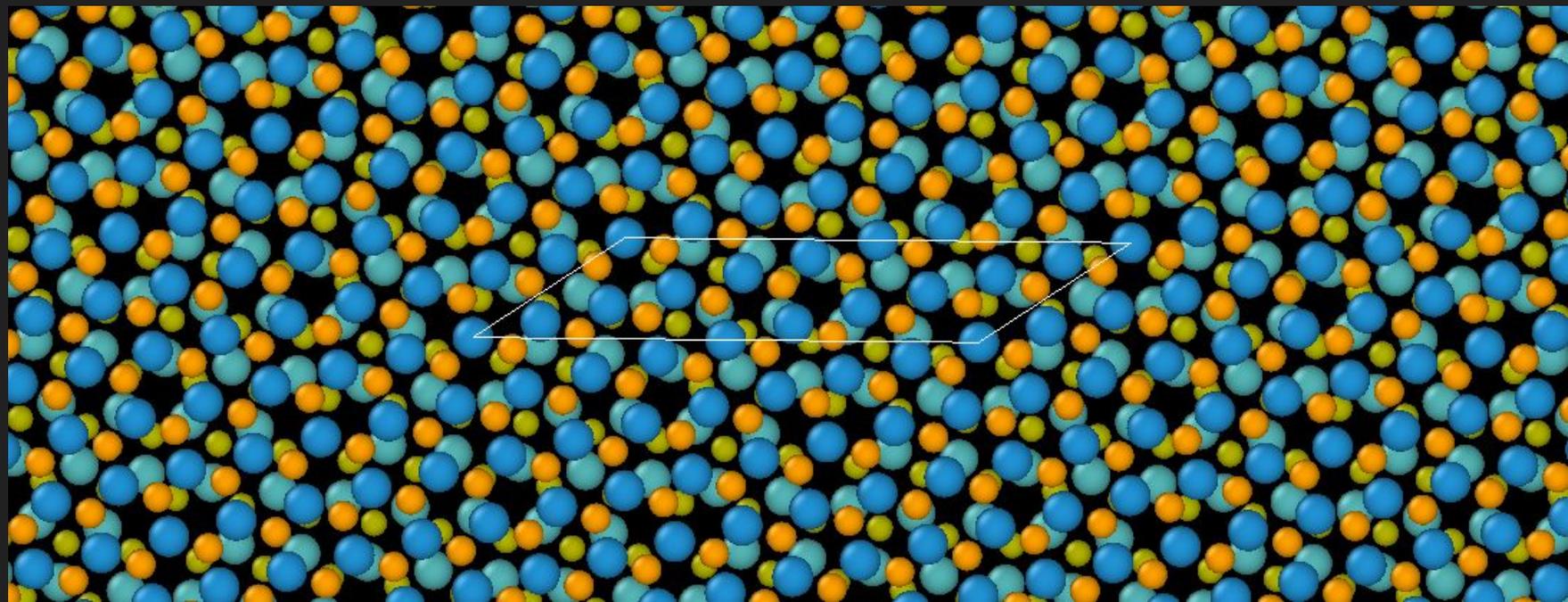
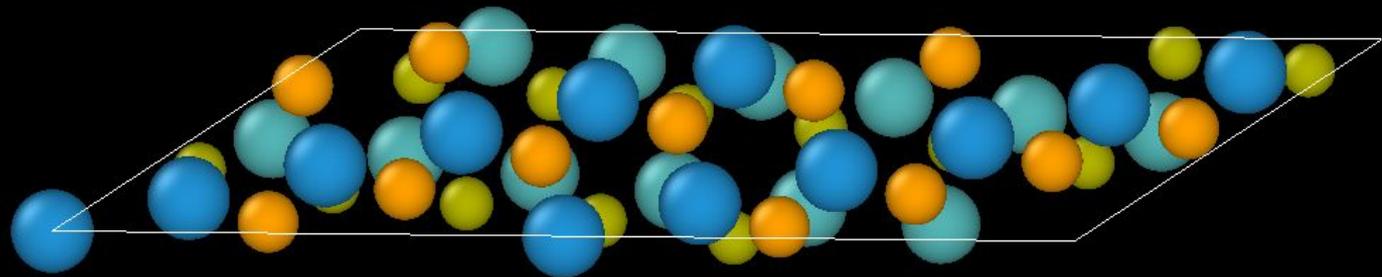
max_iter_twist_search = 5

Total atoms: 75

Mo count: 13

W count: 12





24 degree

twist_min_search = 24

twist_max_search = 24.1

max_strain = 0.02

is_1D_dir_1 = True

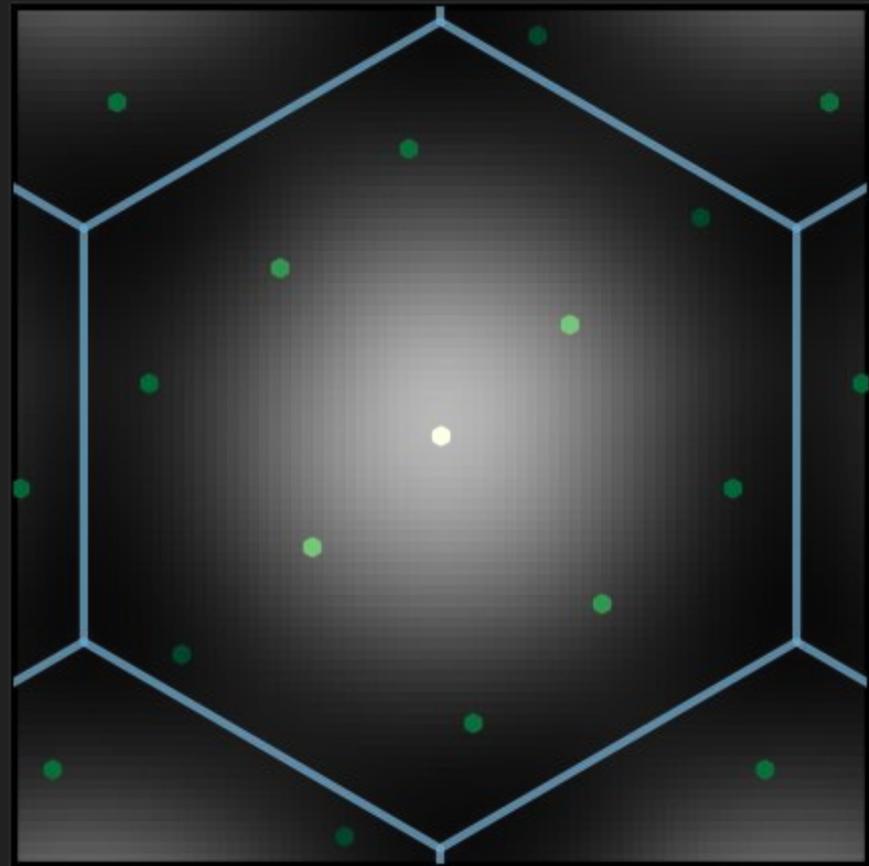
Rmax_max_search = 14

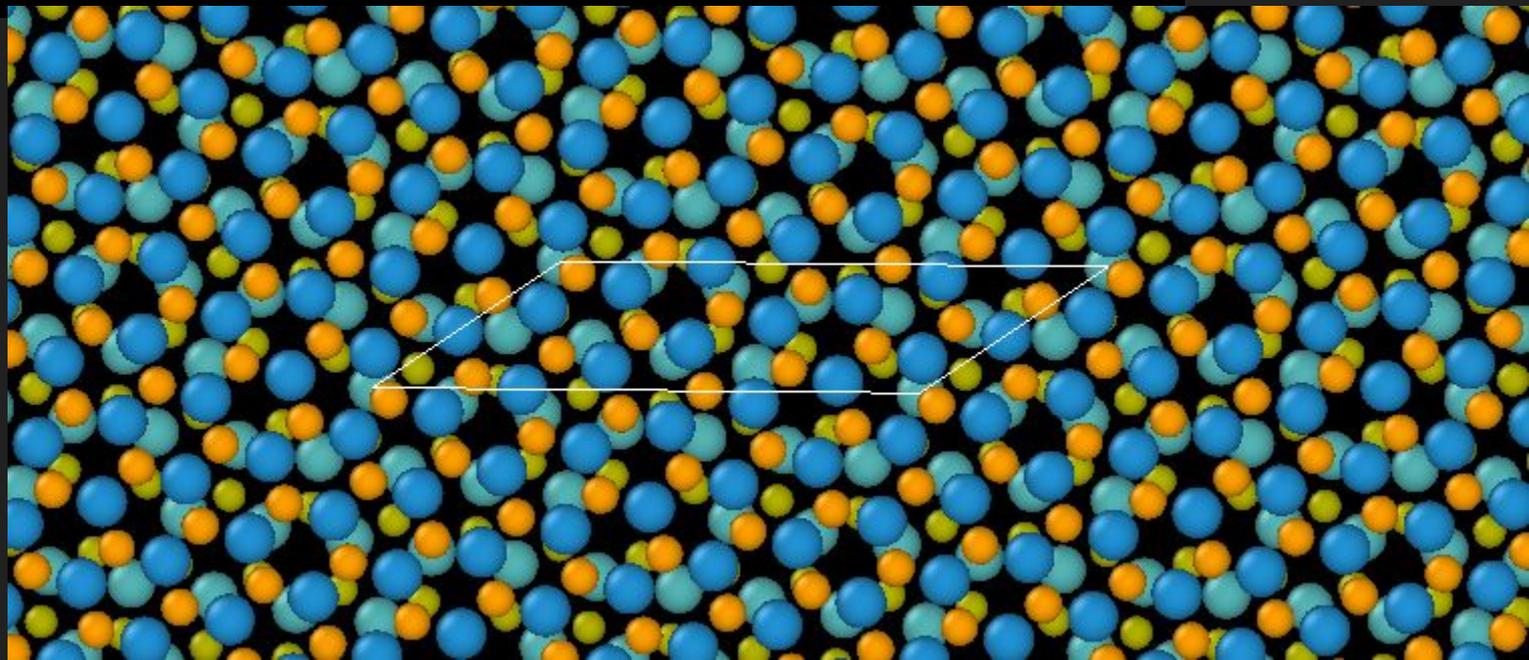
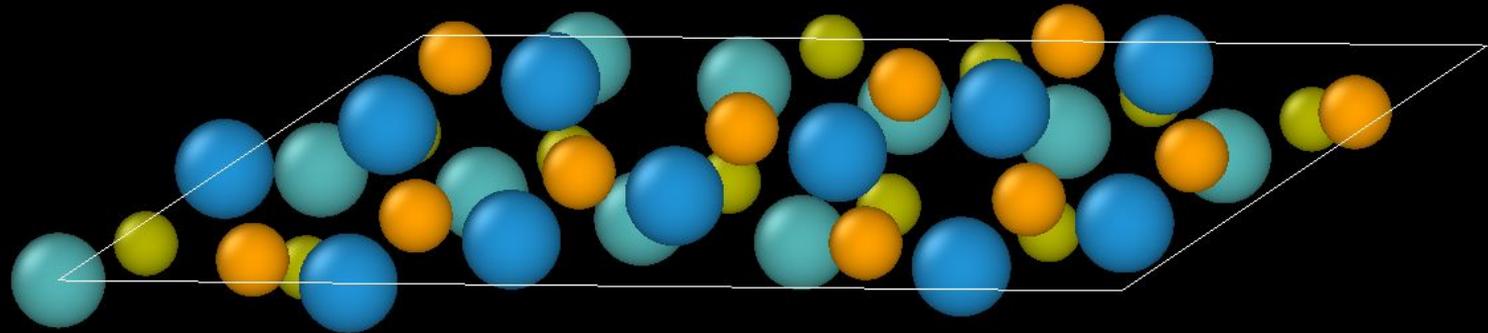
max_iter_twist_search = 5

Total atoms: 66

Mo count: 11

W count: 11





28 degree

twist_min_search = 28

twist_max_search = 28.02

max_strain = 0.02

is_1D_dir_1 = True

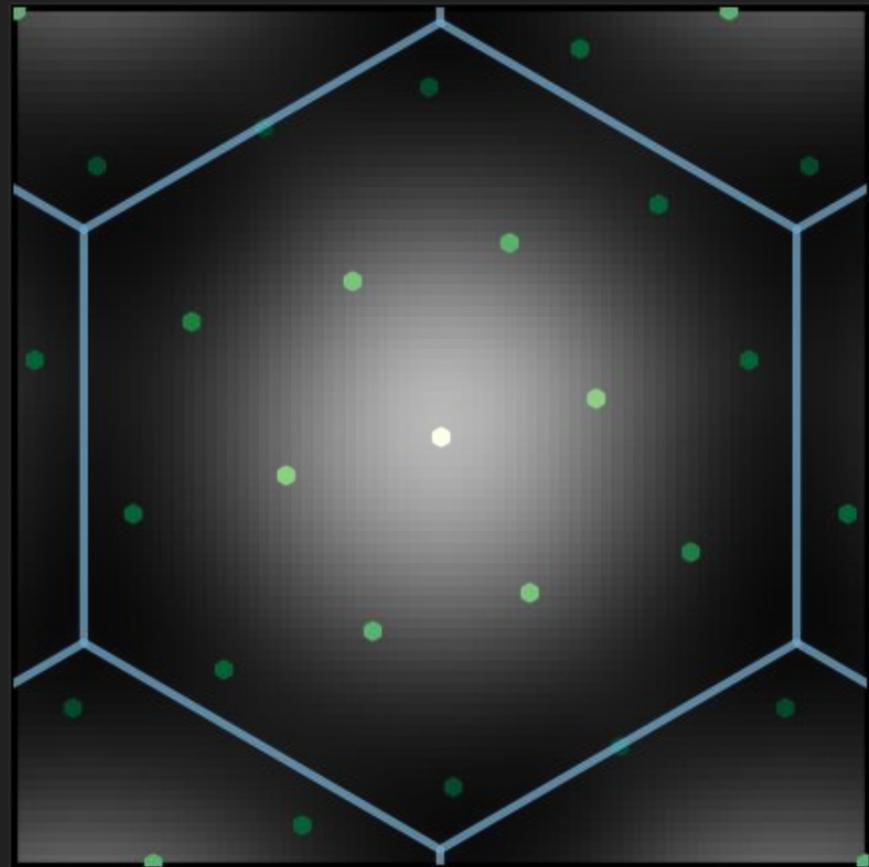
Rmax_max_search = 14

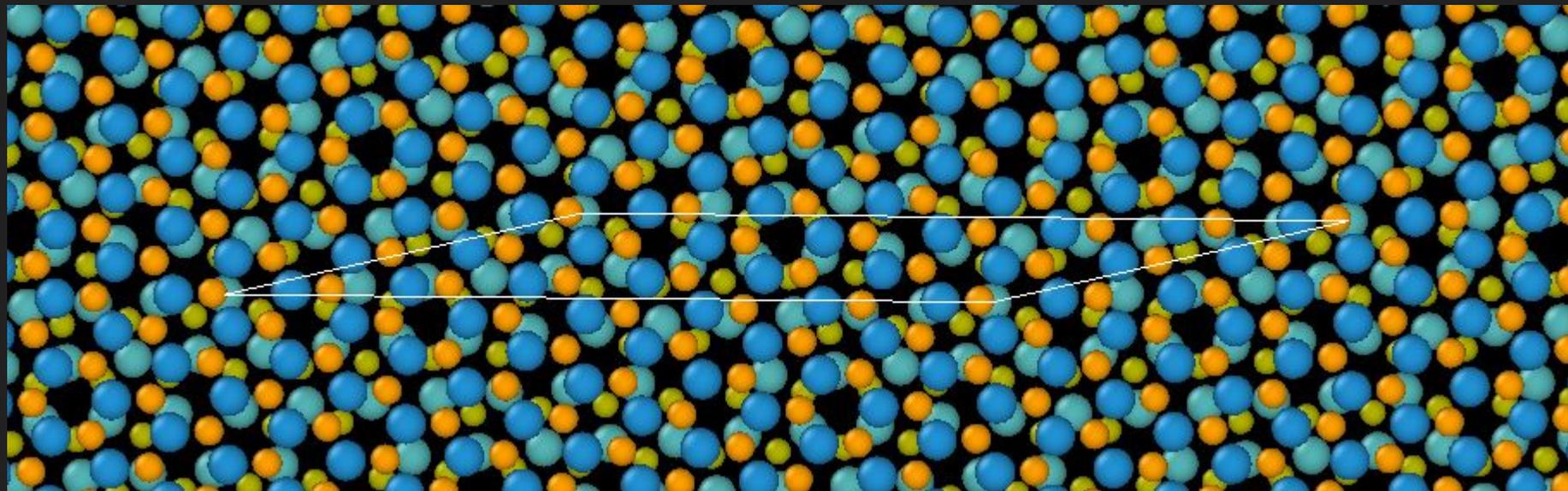
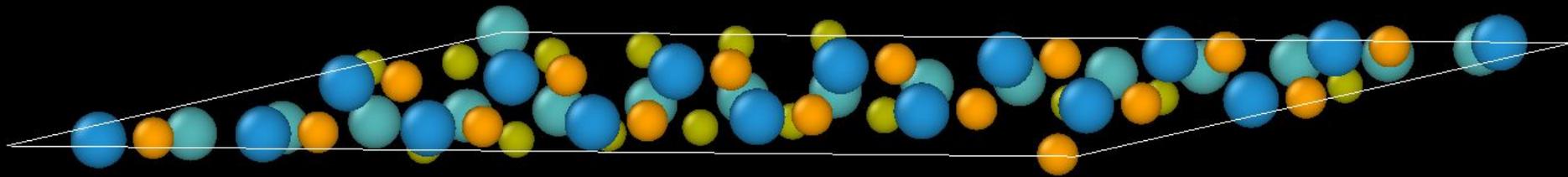
max_iter_twist_search = 5

Total atoms: 99

Mo count: 17

W count: 16





30 degree

twist_min_search = 30

twist_max_search = 30.02

max_strain = 0.02

is_1D_dir_1 = True

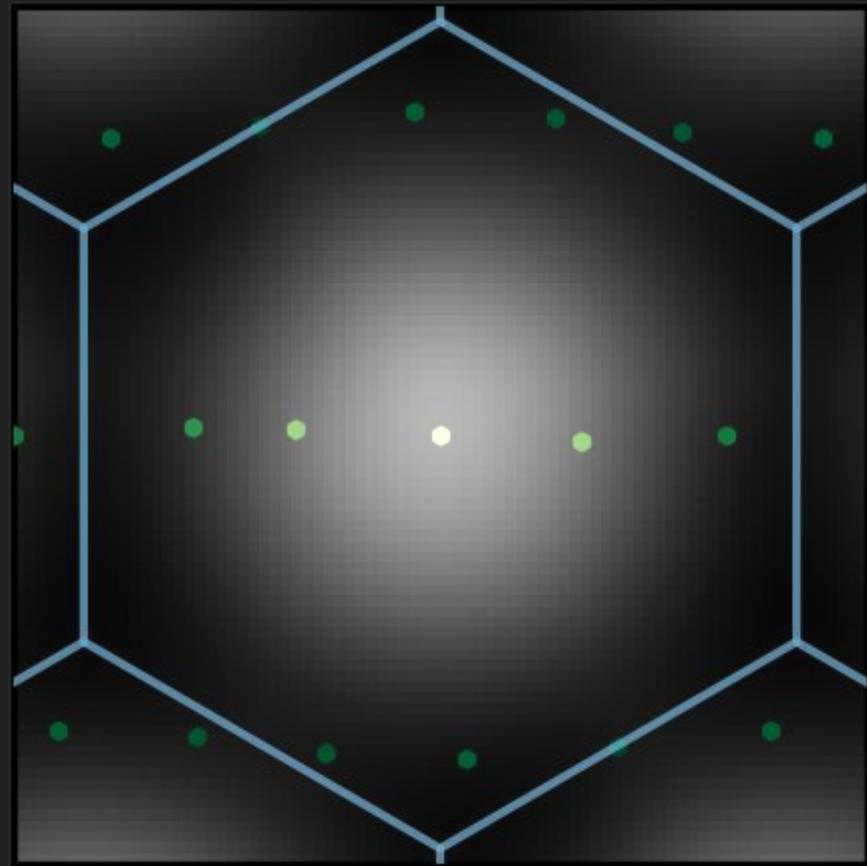
Rmax_max_search = 14

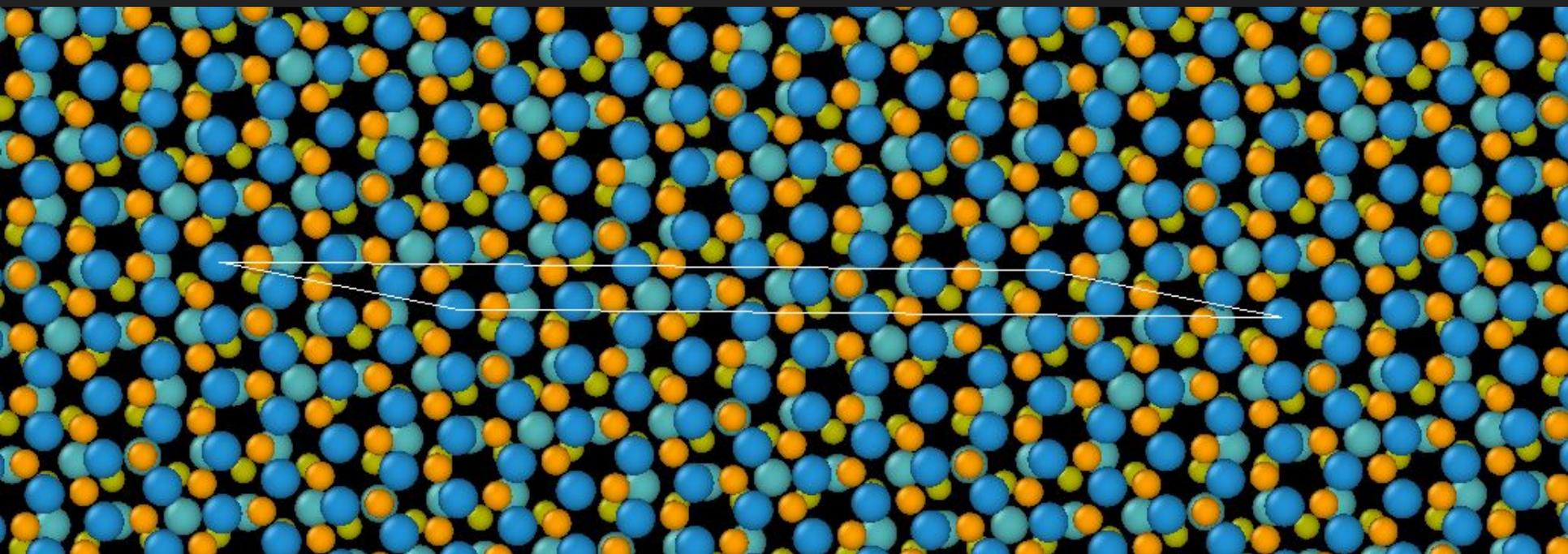
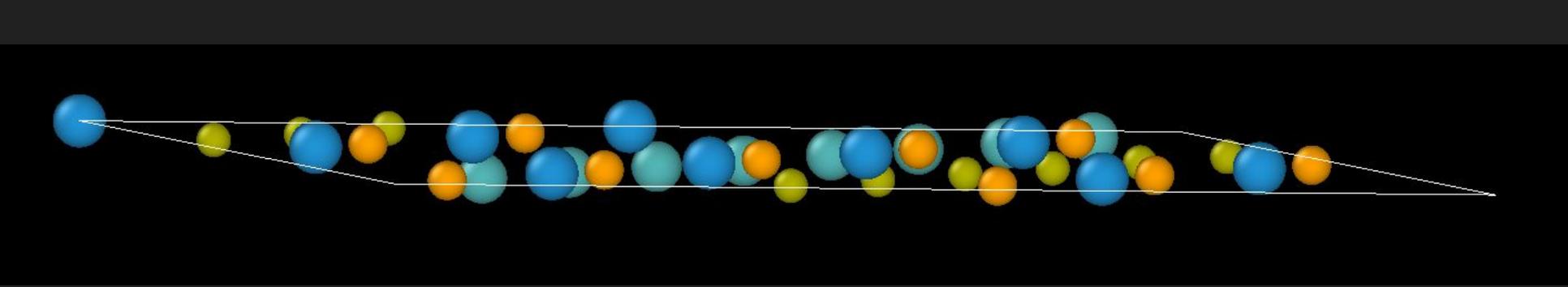
max_iter_twist_search = 5

Total atoms: 57

Mo count: 9

W count: 10





35 degree

twist_min_search = 35

twist_max_search = 35.02

max_strain = 0.02

is_1D_dir_1 = True

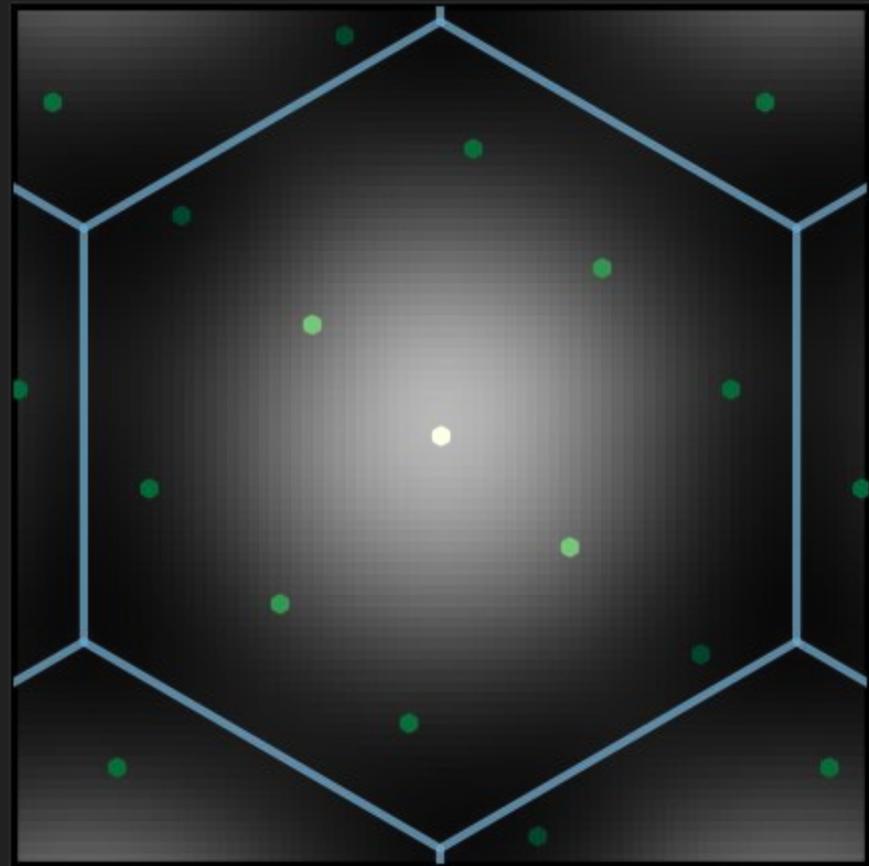
Rmax_max_search = 14

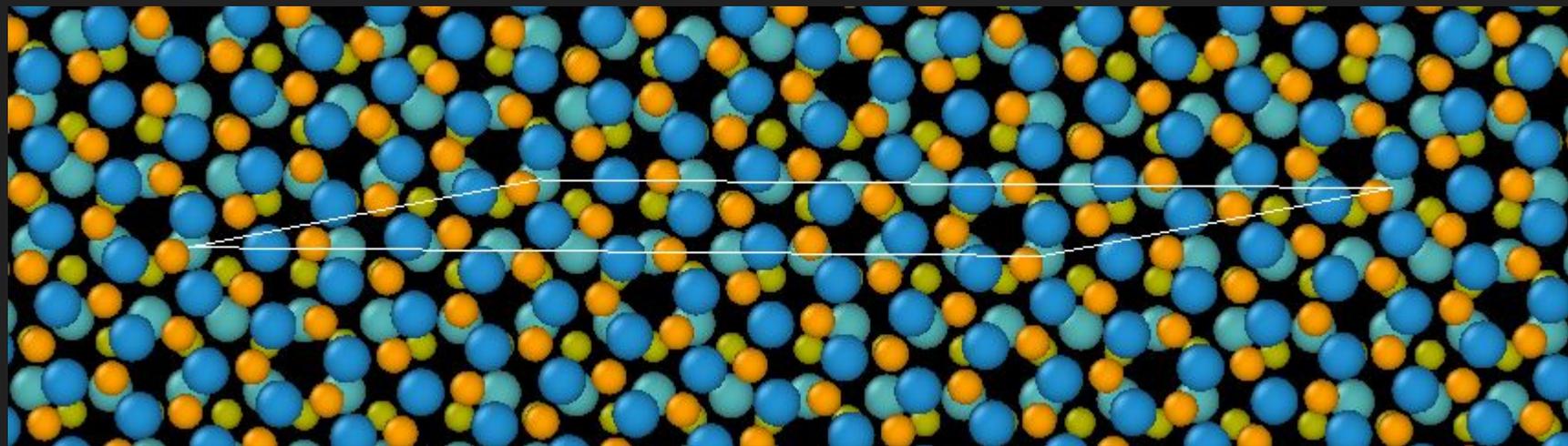
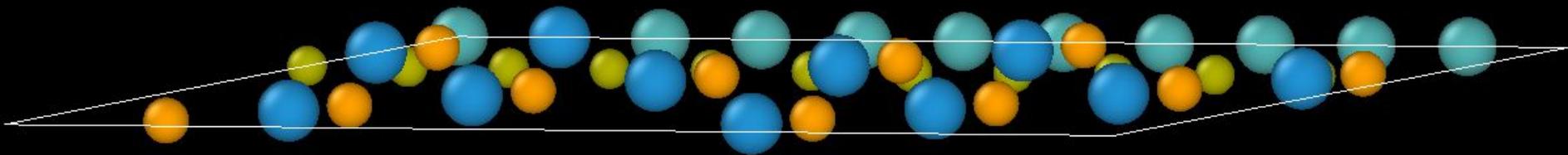
max_iter_twist_search = 5

Total atoms: 66

Mo count: 11

W count: 11





40 degree

twist_min_search = 40

twist_max_search = 40.1

max_strain = 0.05

is_1D_dir_1 = True

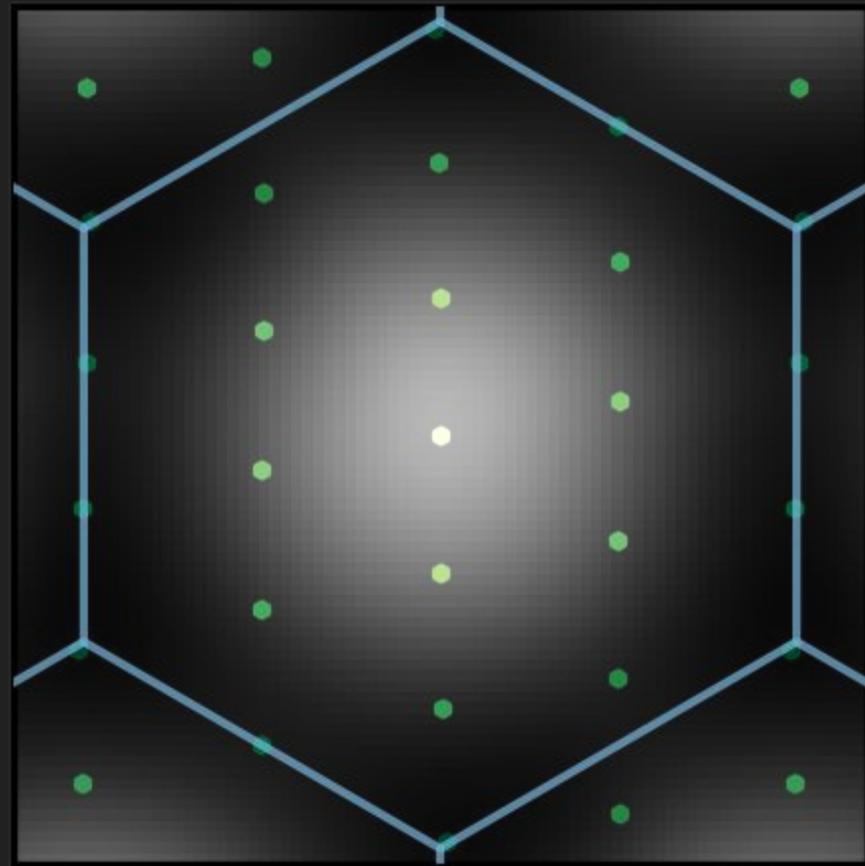
Rmax_max_search = 16

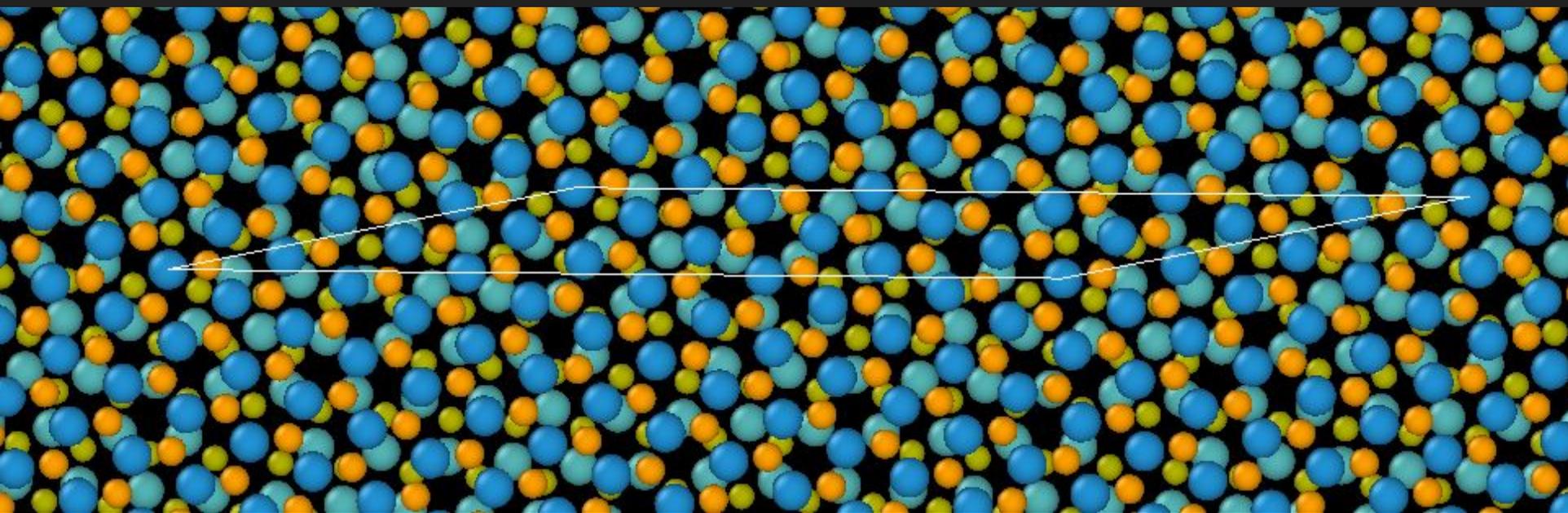
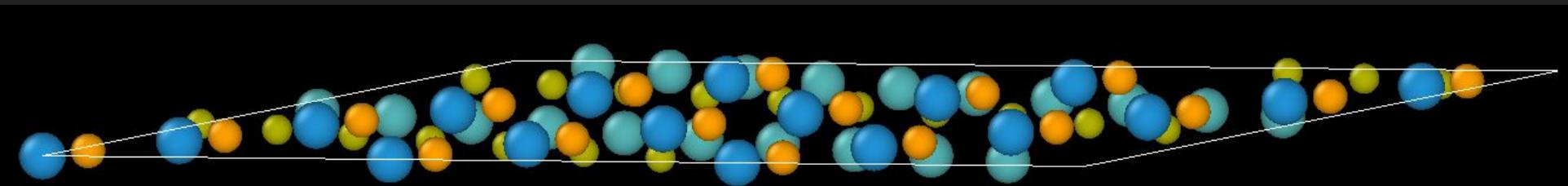
max_iter_twist_search = 5

Total atoms: 117

Mo count: 21

W count: 18





45 degree

twist_min_search = 45

twist_max_search = 45.1

max_strain = 0.05

is_1D_dir_1 = True

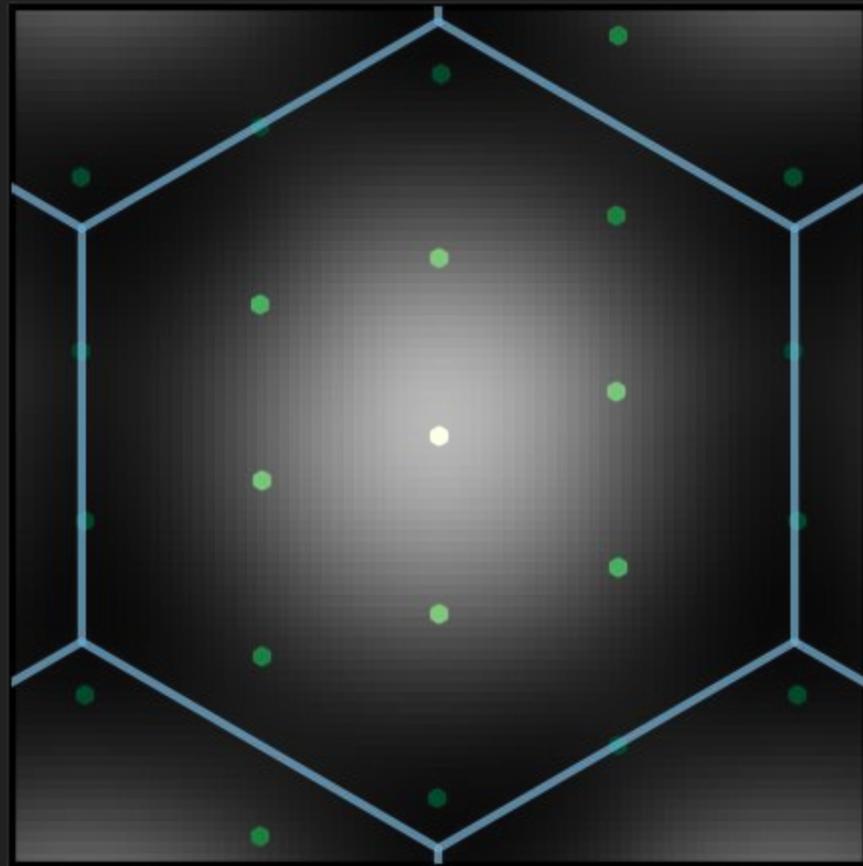
Rmax_max_search = 16

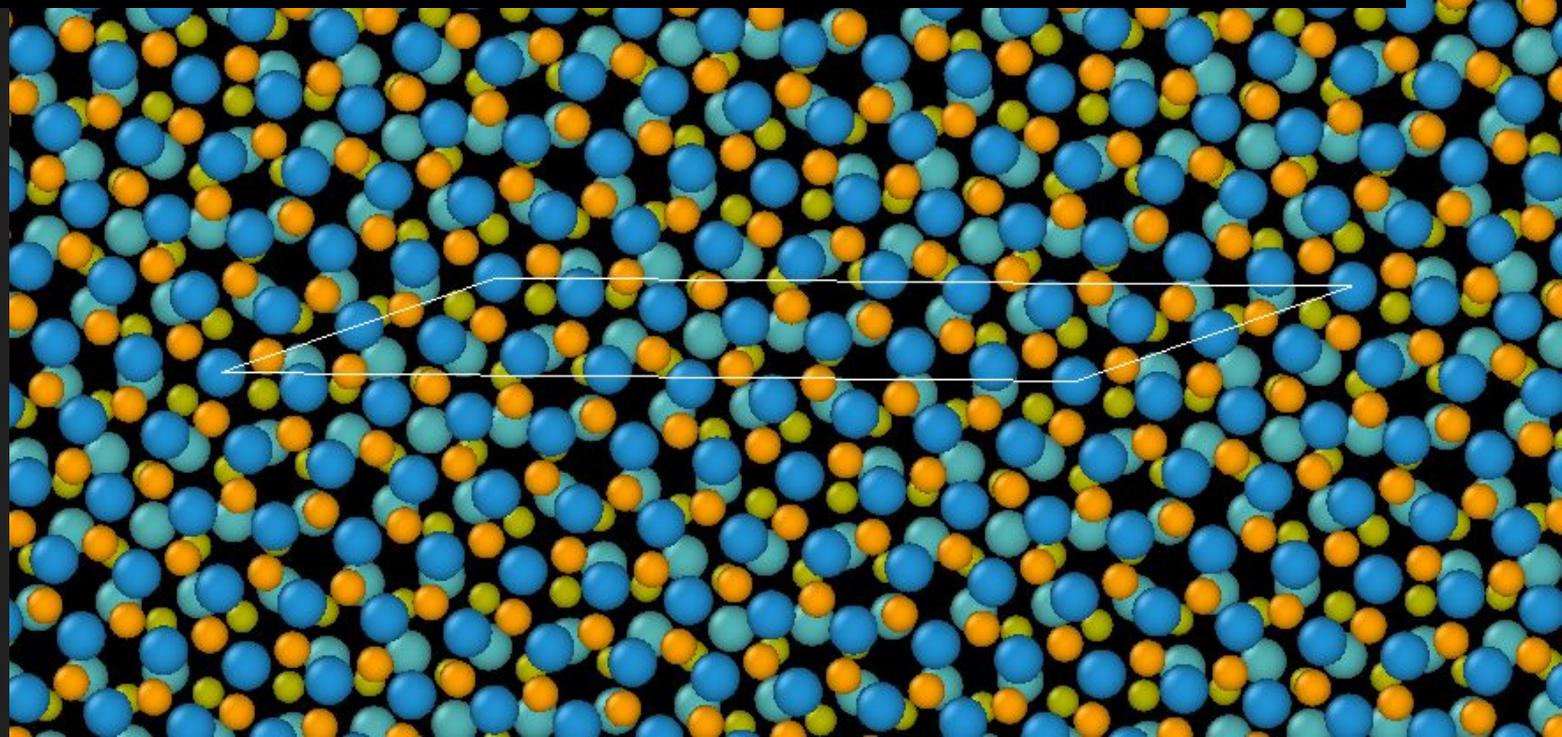
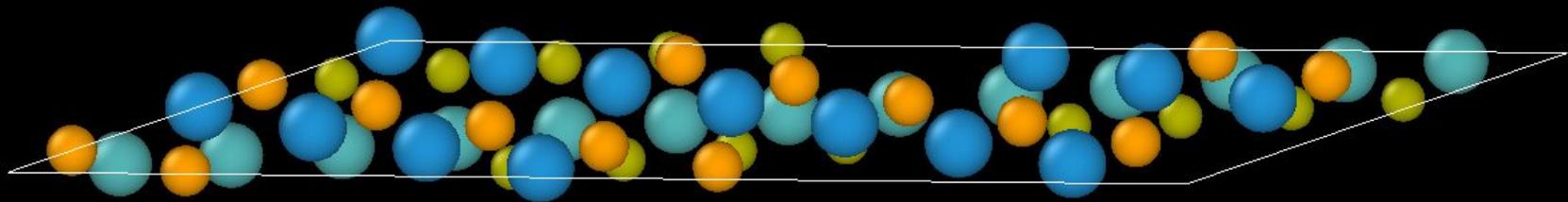
max_iter_twist_search = 5

Total atoms: 84

Mo count: 14

W count: 14





50 degree

twist_min_search = 50

twist_max_search = 50.1

max_strain = 0.05

is_1D_dir_1 = True

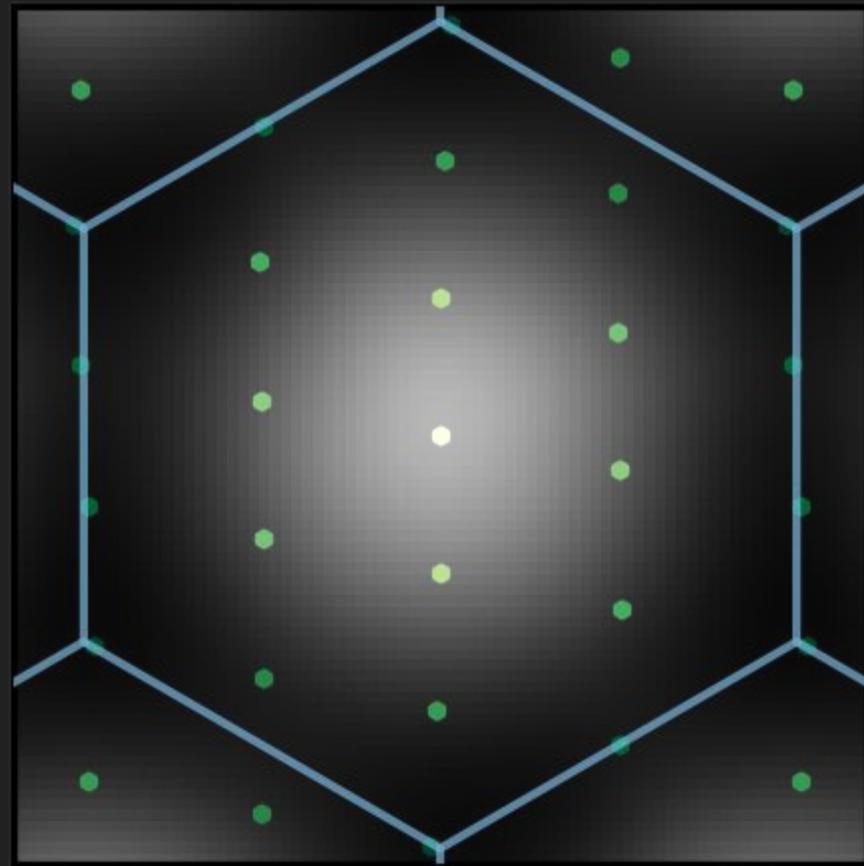
Rmax_max_search = 16

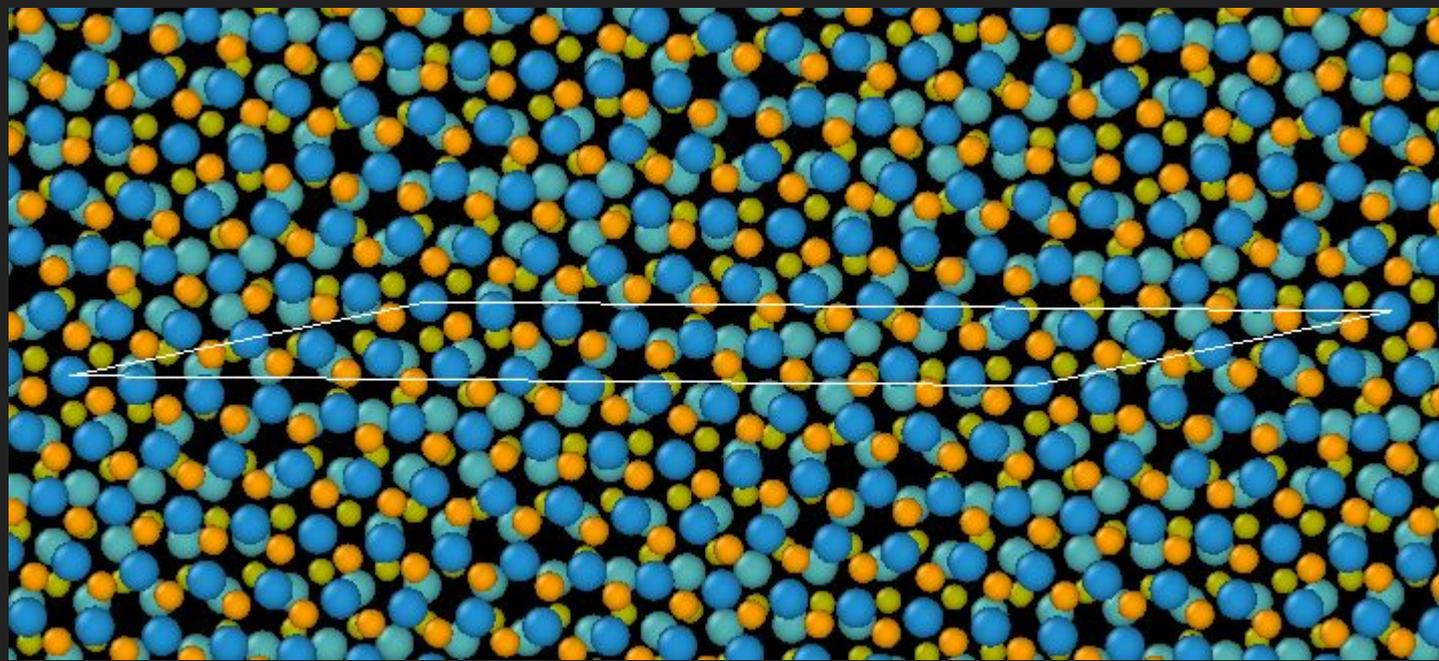
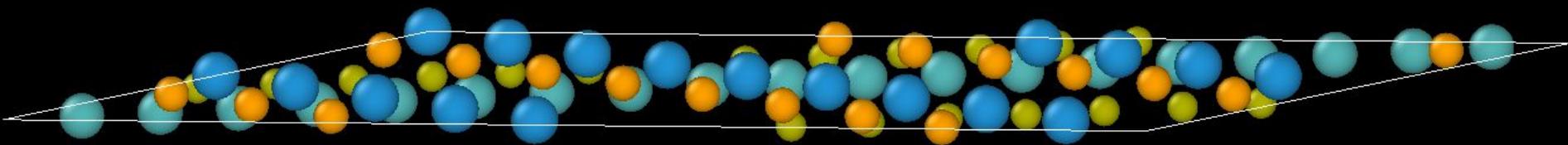
max_iter_twist_search = 5

Total atoms: 114

Mo count: 20

W count: 18





55 degree

twist_min_search = 55

twist_max_search = 55.1

max_strain = 0.01

is_1D_dir_1 = True

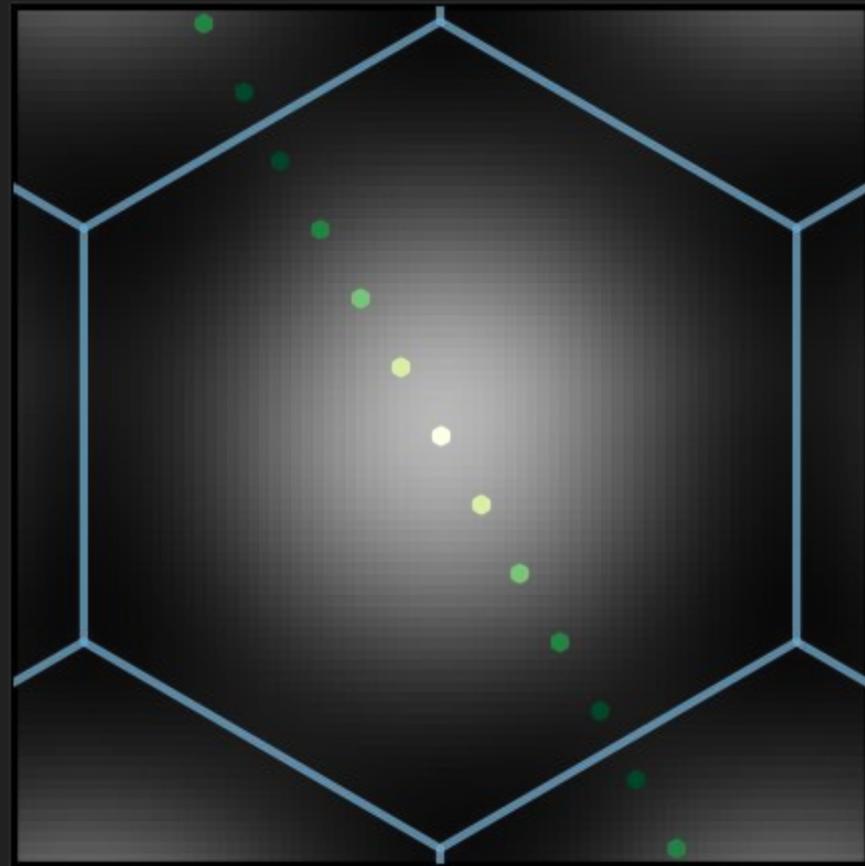
Rmax_max_search = 16

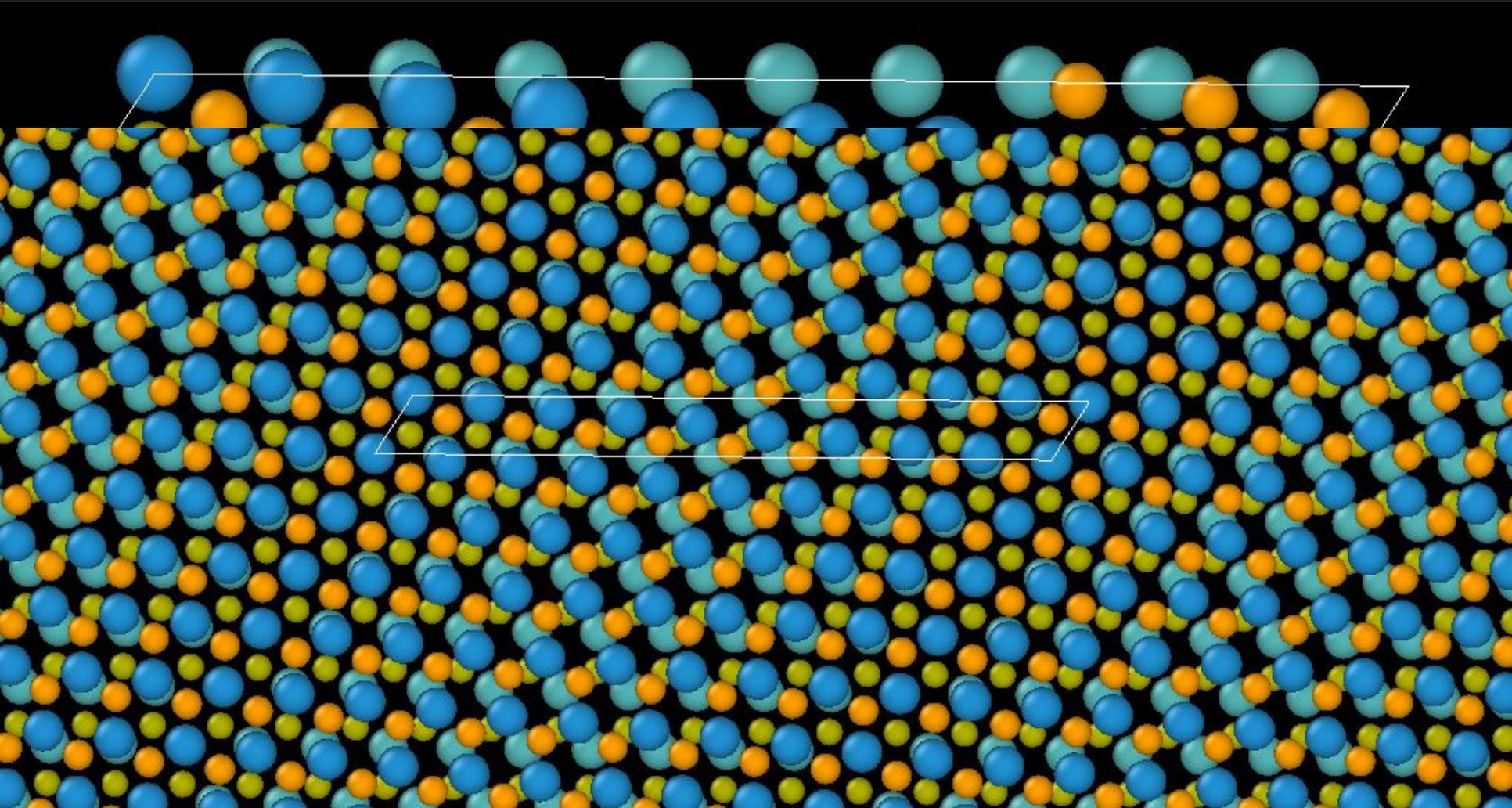
max_iter_twist_search = 5

Total atoms: 57

Mo count: 10

W count: 9





60 degree

twist_min_search = 60

twist_max_search = 60.1

max_strain = 0.05

is_1D_dir_1 = True

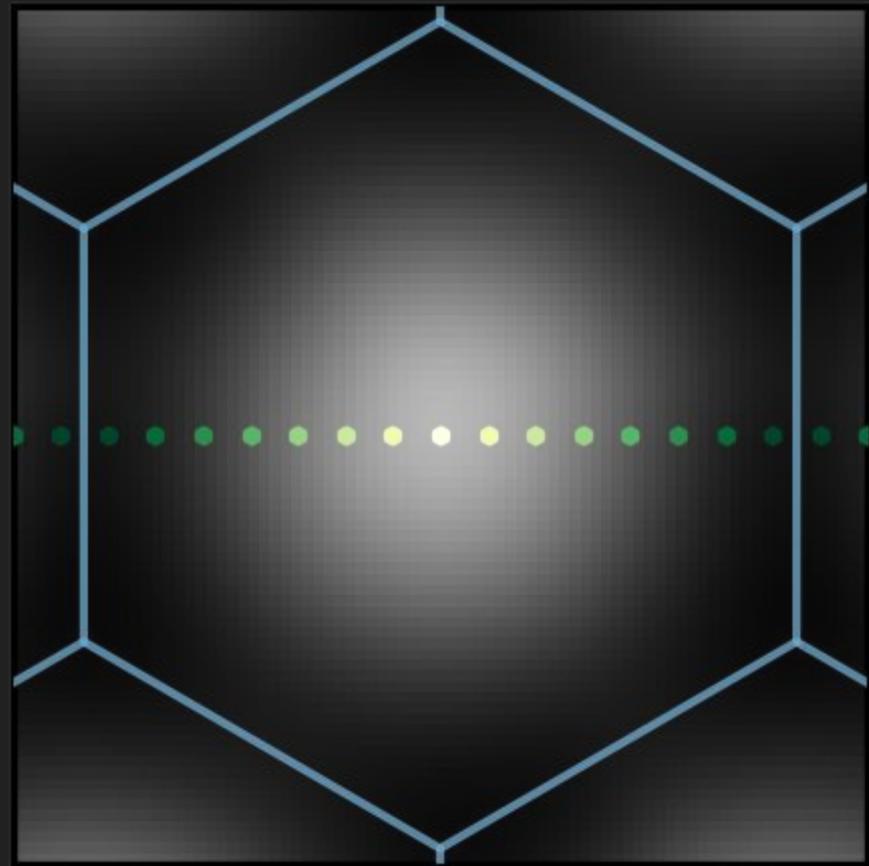
Rmax_max_search = 16

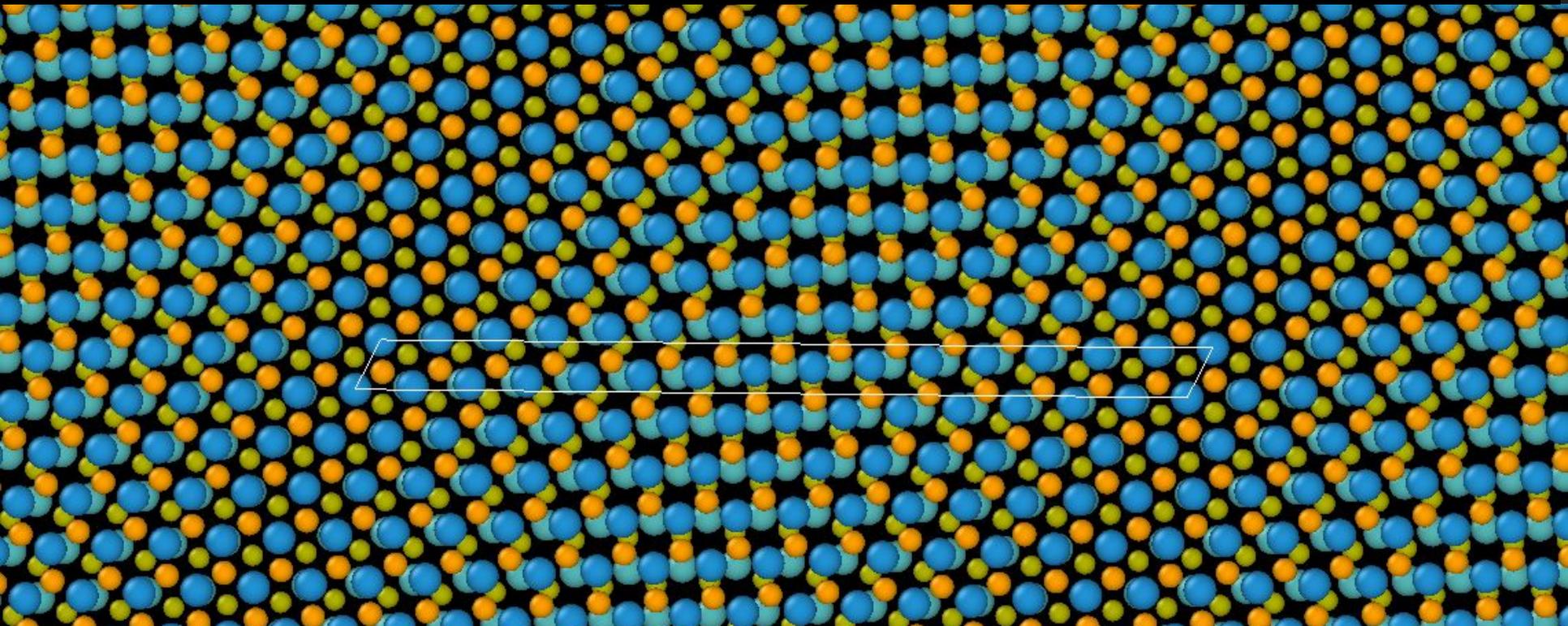
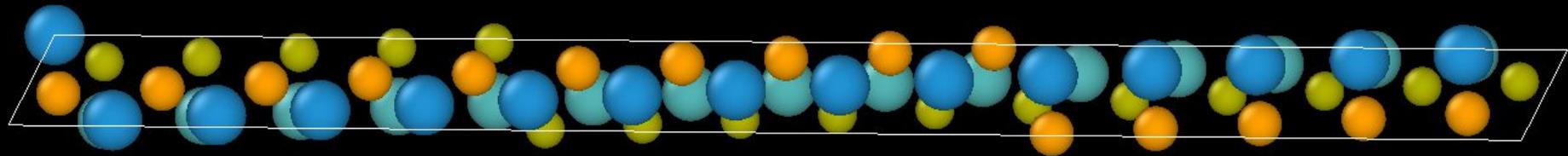
max_iter_twist_search = 5

Total atoms: 93

Mo count: 16

W count: 15





65 degree

twist_min_search = 65

twist_max_search = 65.1

max_strain = 0.02

is_1D_dir_1 = True

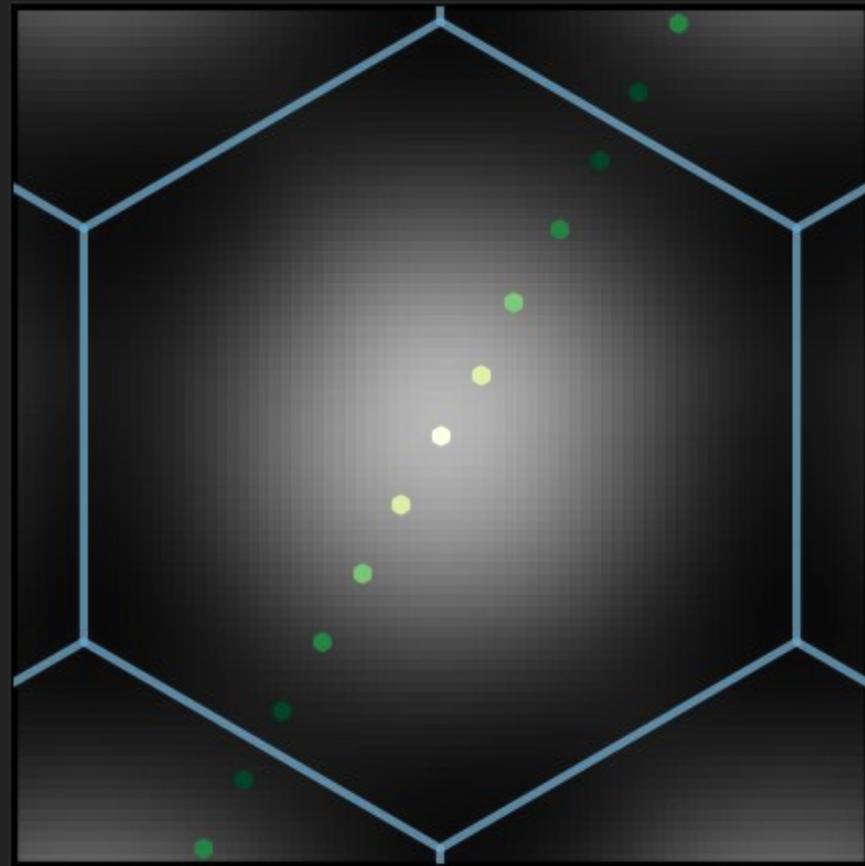
Rmax_max_search = 14

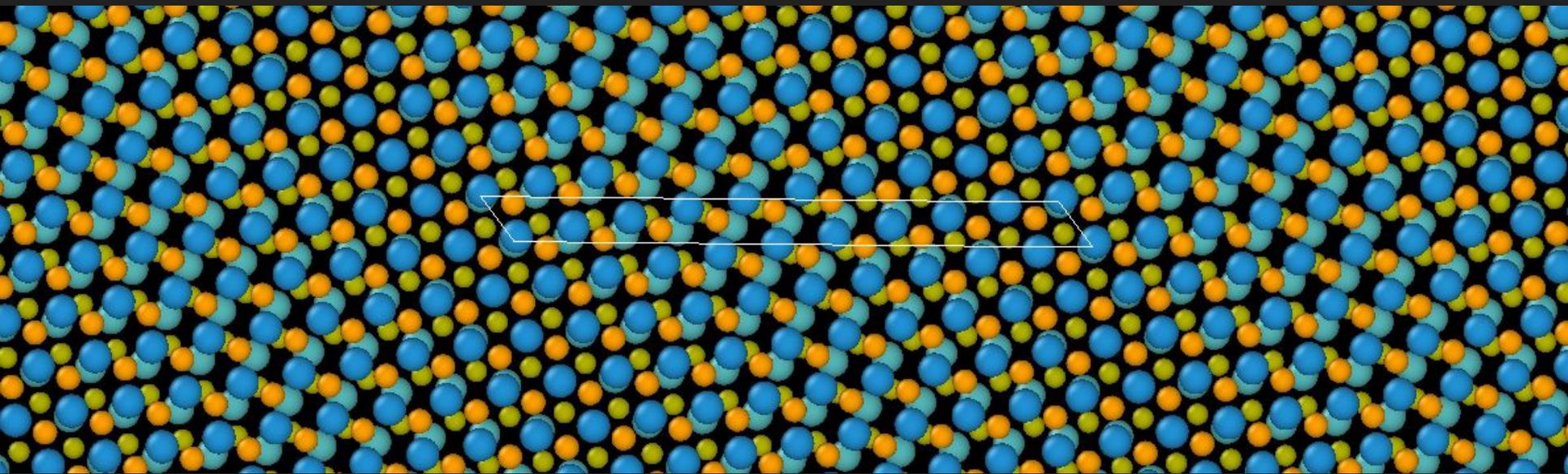
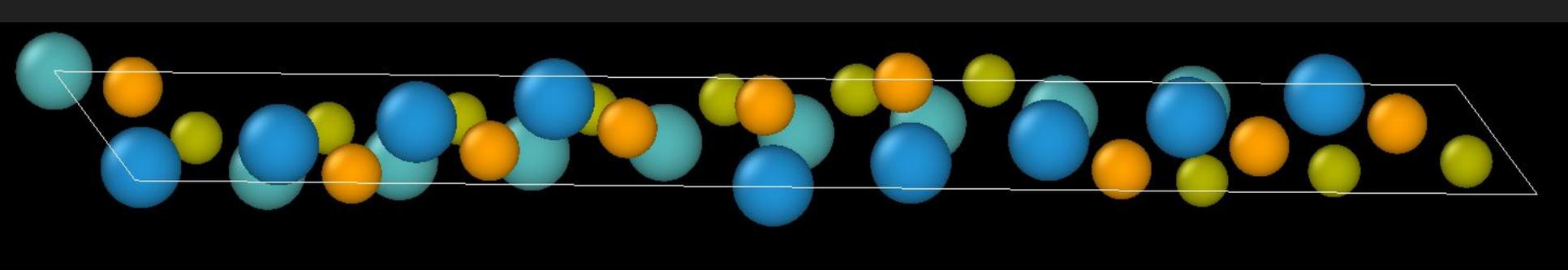
max_iter_twist_search = 5

Total atoms: 57

Mo count: 10

W count: 9





70 degree

twist_min_search = 70

twist_max_search = 70.1

max_strain = 0.02

is_1D_dir_1 = True

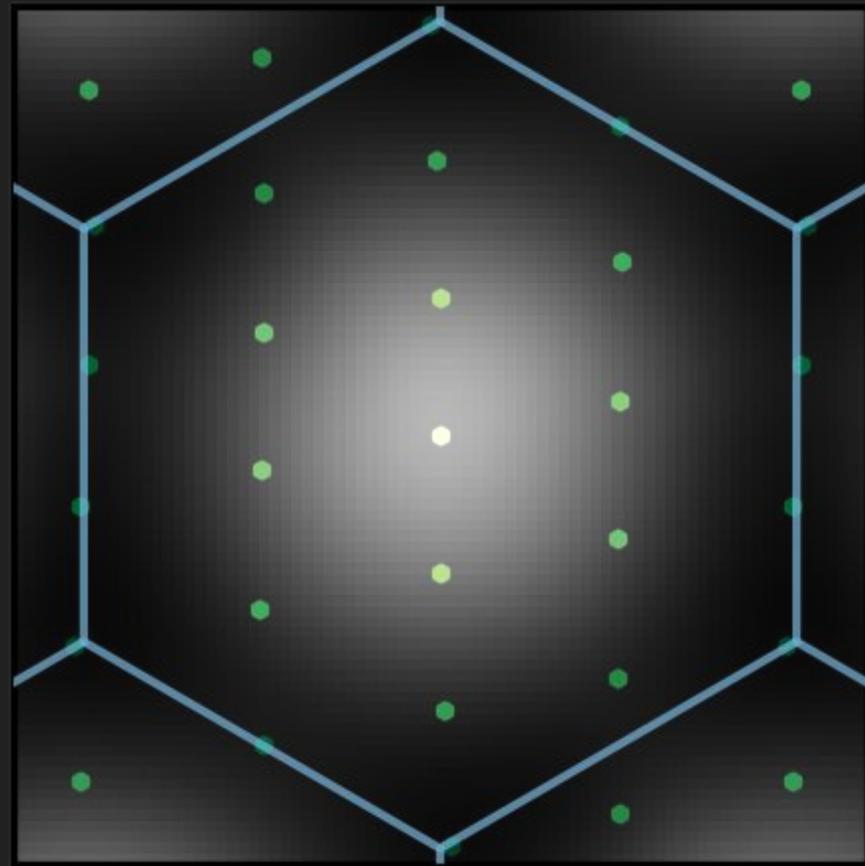
Rmax_max_search = 16

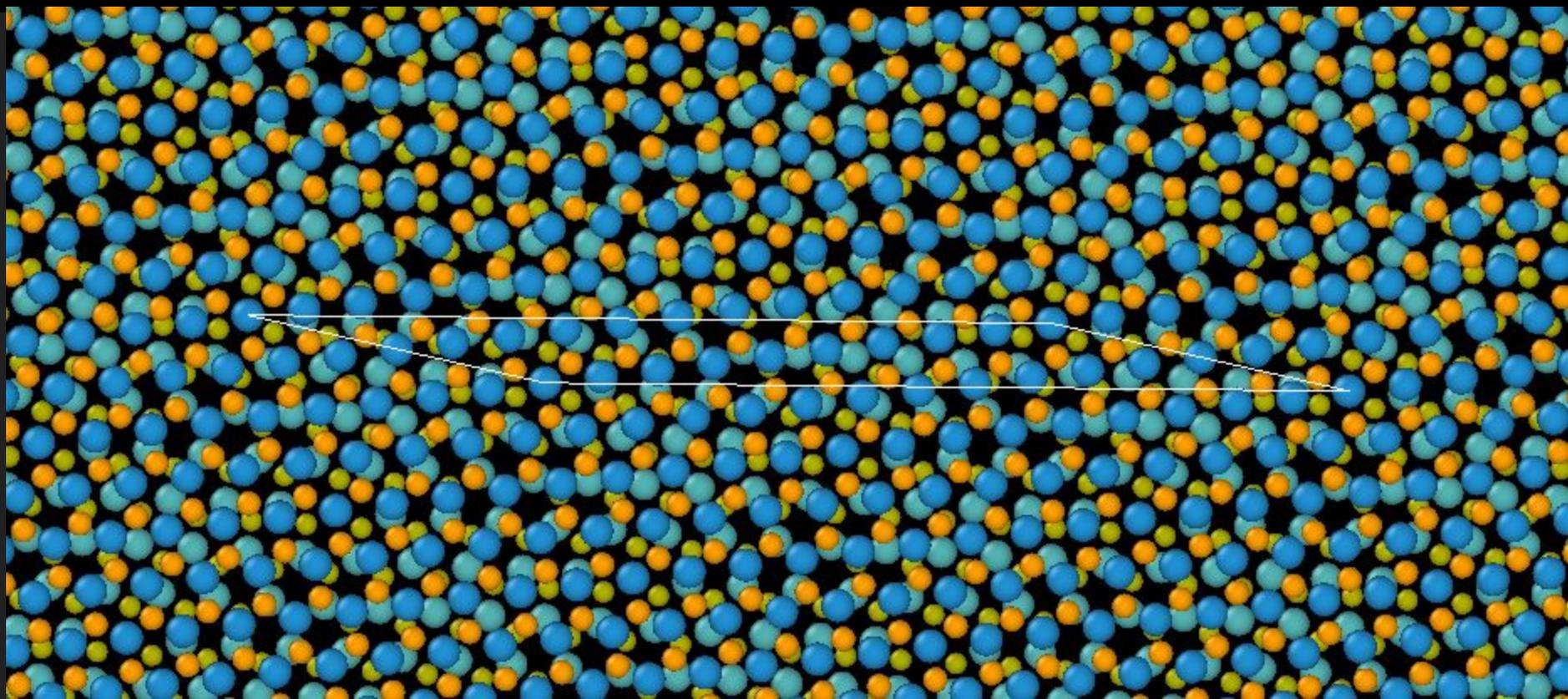
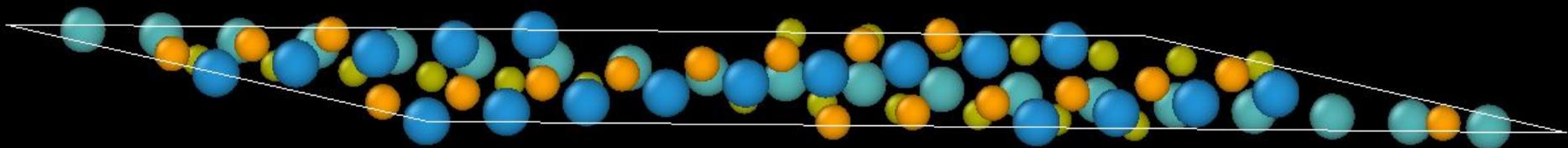
max_iter_twist_search = 5

Total atoms: 114

Mo count: 20

W count: 18





75 degree

twist_min_search = 75

twist_max_search = 75.1

max_strain = 0.02

is_1D_dir_1 = True

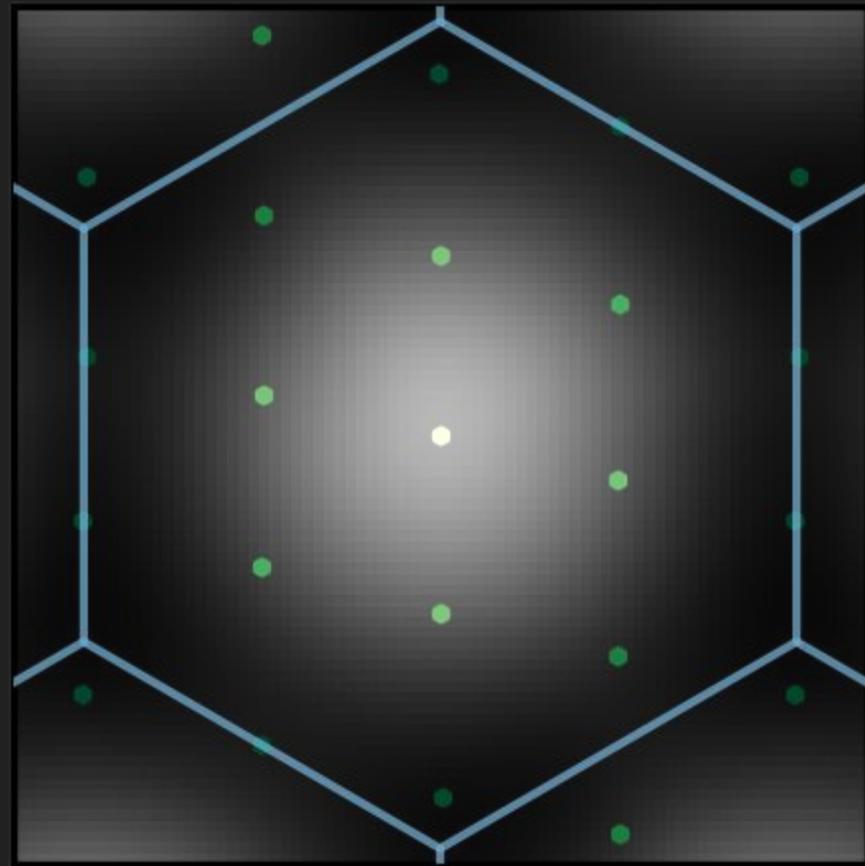
Rmax_max_search = 16

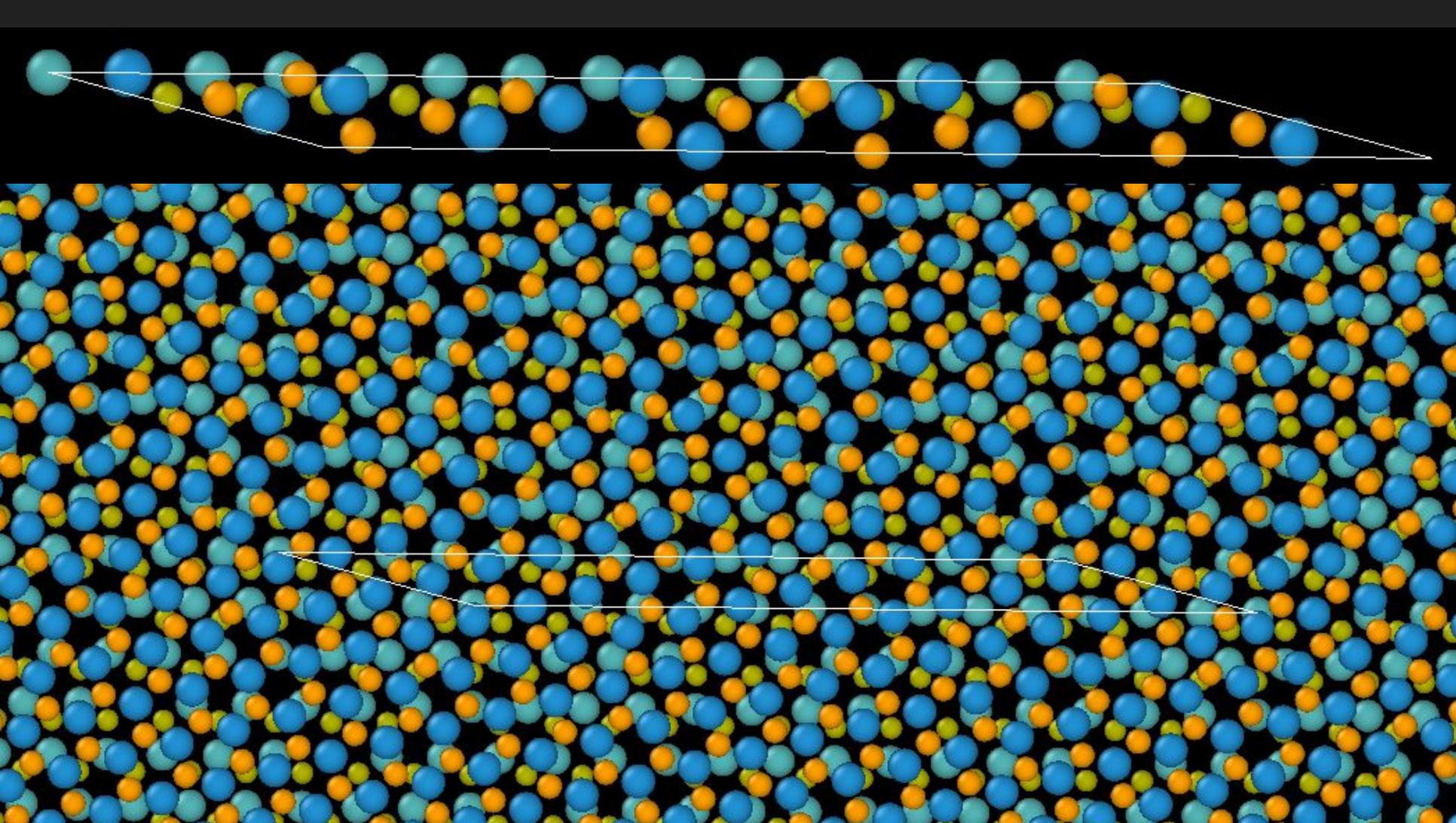
max_iter_twist_search = 5

Total atoms: 84

Mo count: 14

W count: 14





80 degree

twist_min_search = 80

twist_max_search = 80.1

max_strain = 0.01

is_1D_dir_1 = True

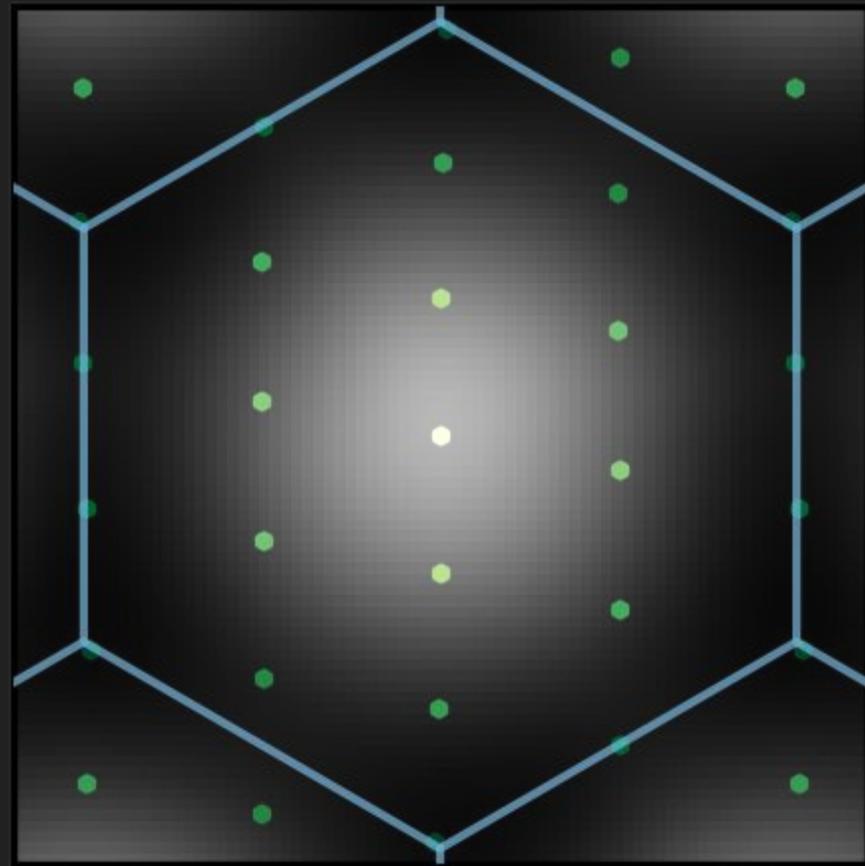
Rmax_max_search = 16

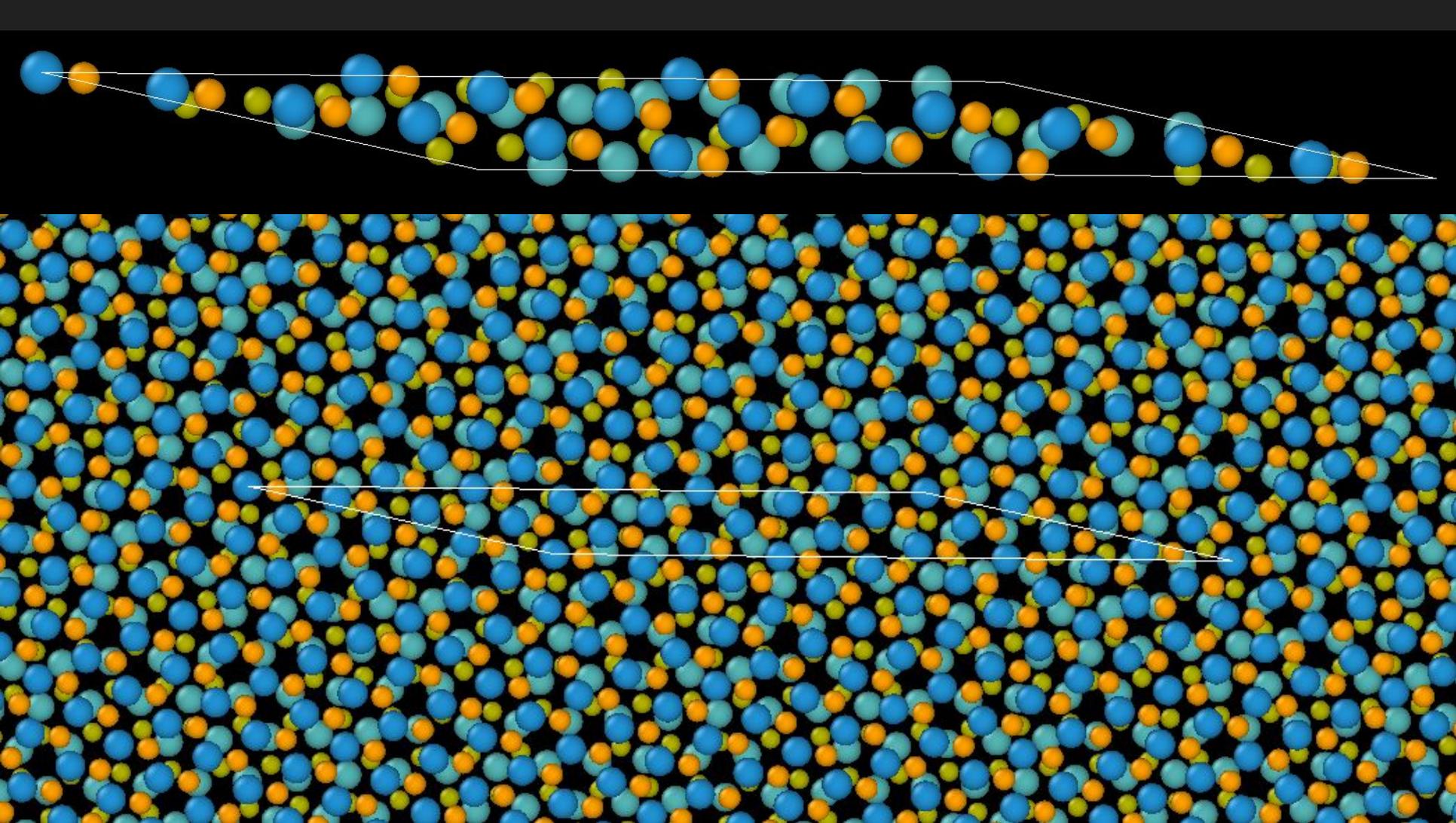
max_iter_twist_search = 5

Total atoms: 117

Mo count: 21

W count: 18





85 degree

twist_min_search = 85

twist_max_search = 85.1

max_strain = 0.02

is_1D_dir_1 = True

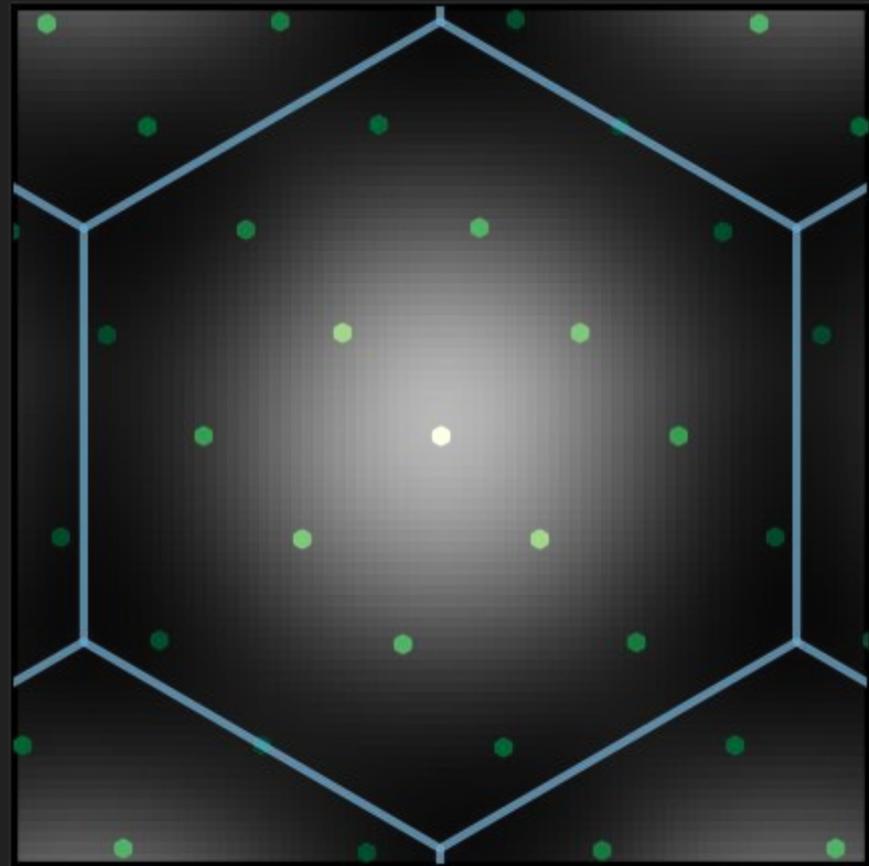
Rmax_max_search = 16

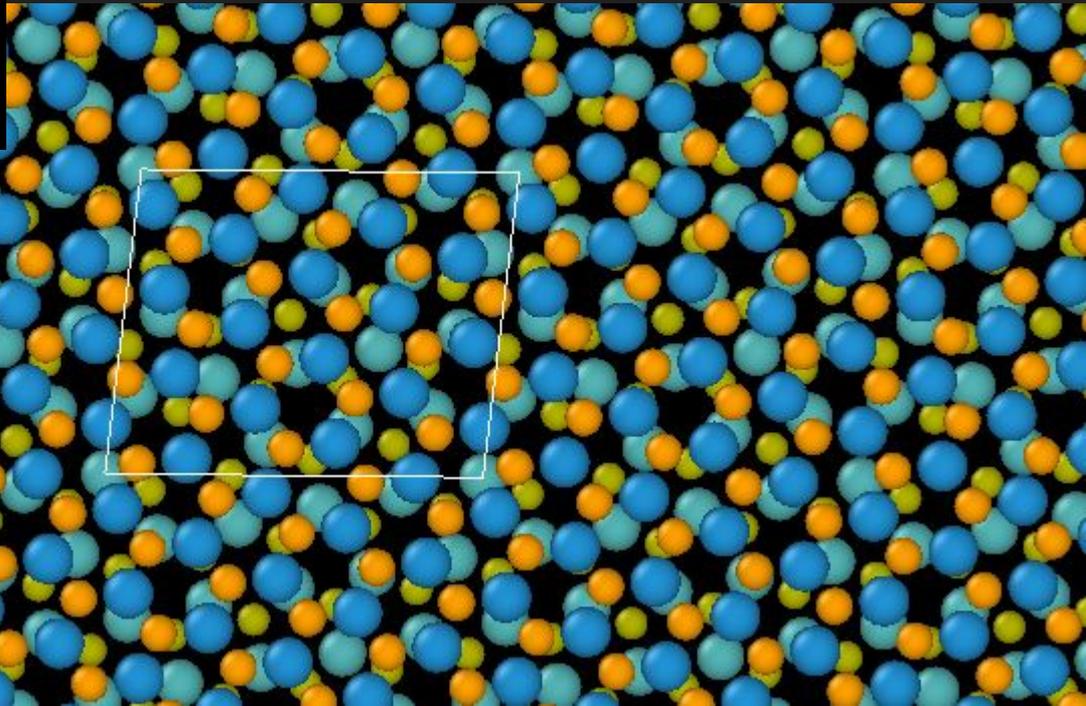
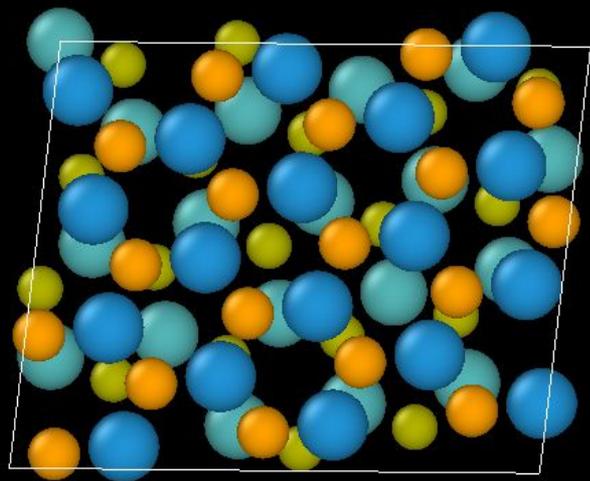
max_iter_twist_search = 5

Total atoms: 111

Mo count: 19

W count: 18





90 degree

twist_min_search = 90

twist_max_search = 90.1

max_strain = 0.02

is_1D_dir_1 = True

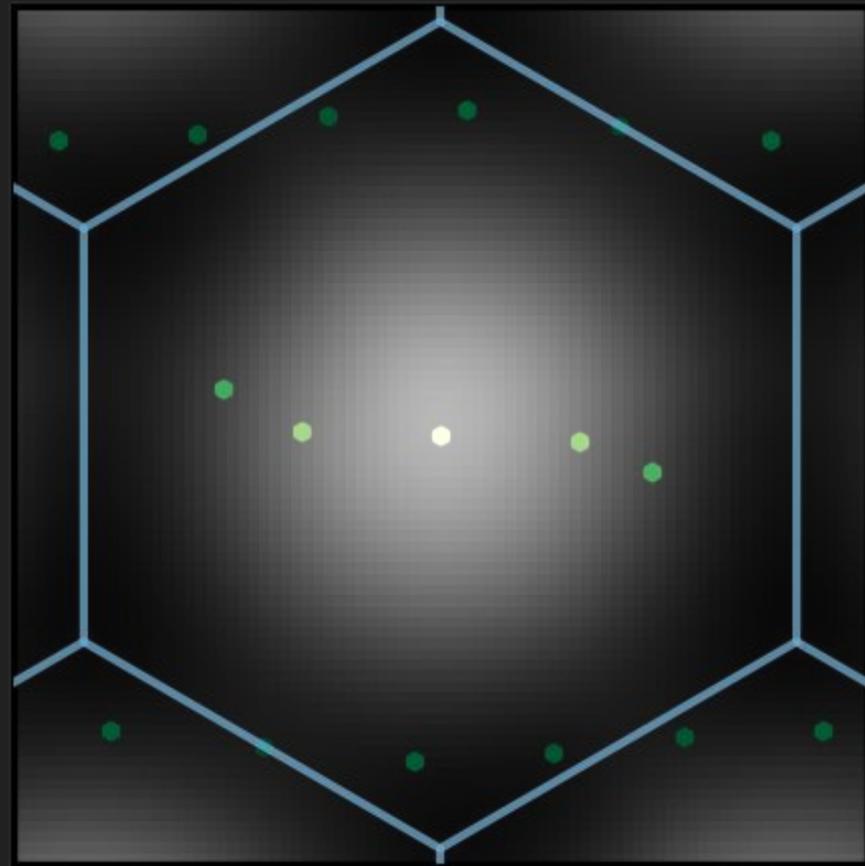
Rmax_max_search = 16

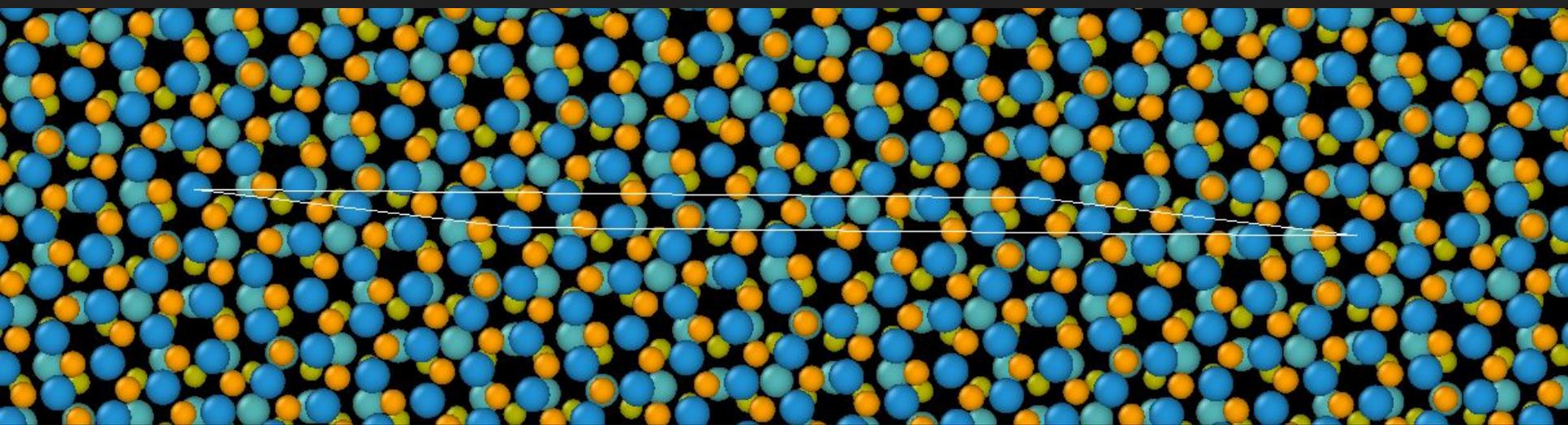
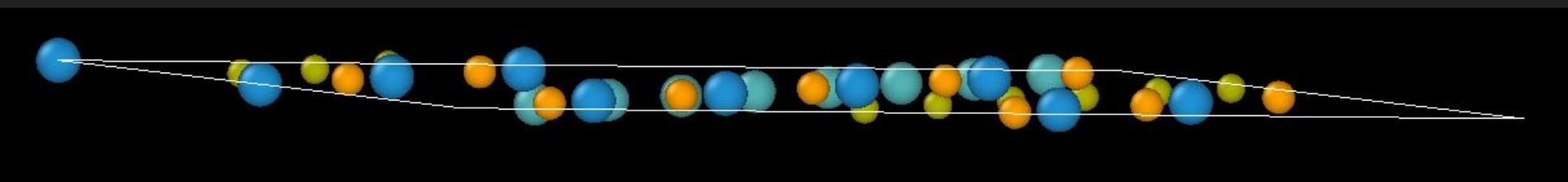
max_iter_twist_search = 5

Total atoms: 57

Mo count: 9

W count: 10





95 degree

twist_min_search = 95

twist_max_search = 95.1

max_strain = 0.02

is_1D_dir_1 = True

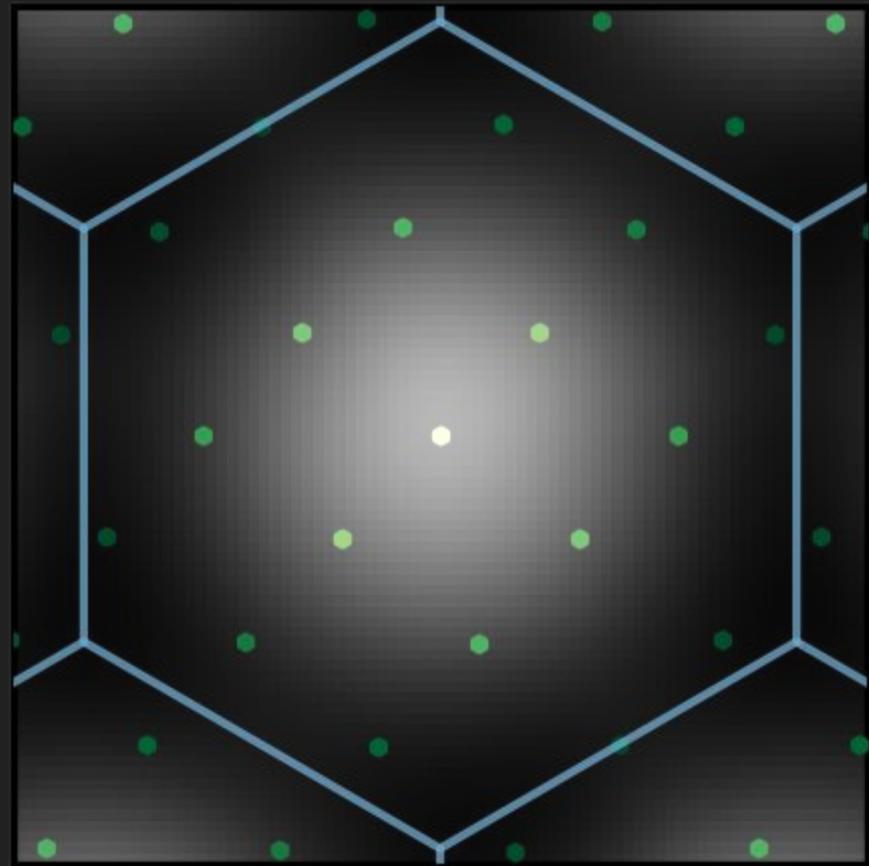
Rmax_max_search = 16

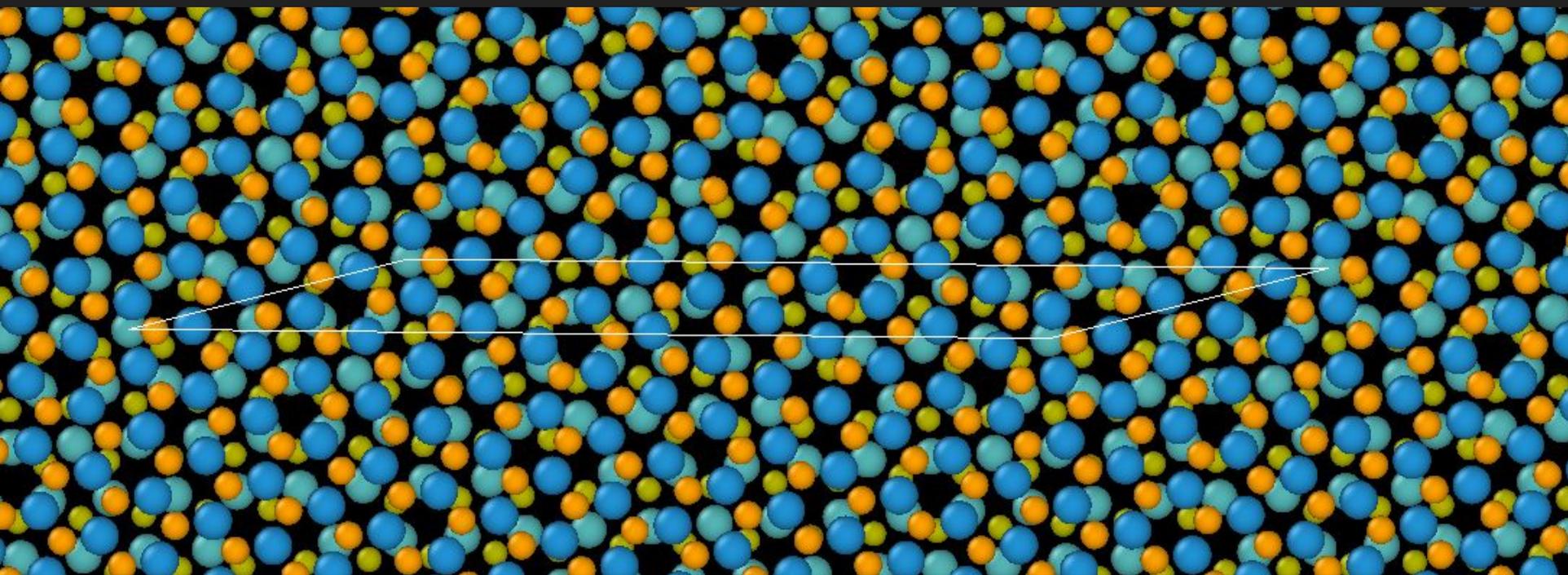
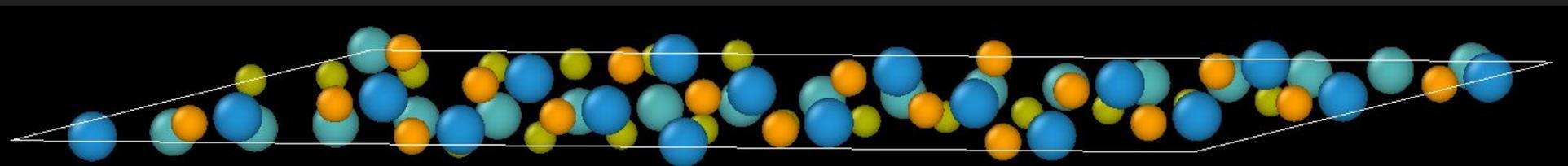
max_iter_twist_search = 5

Total atoms: 111

Mo count: 19

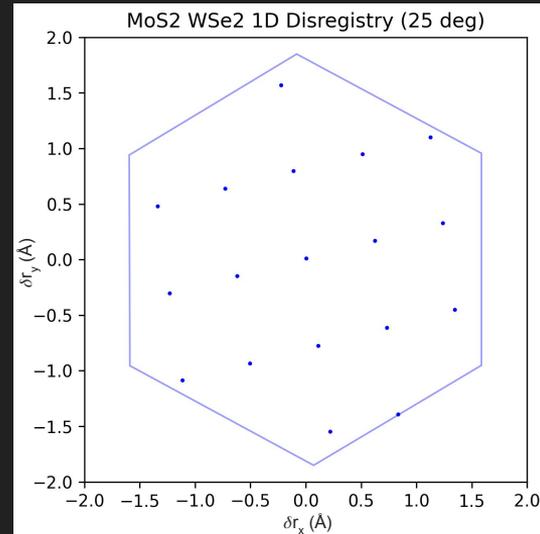
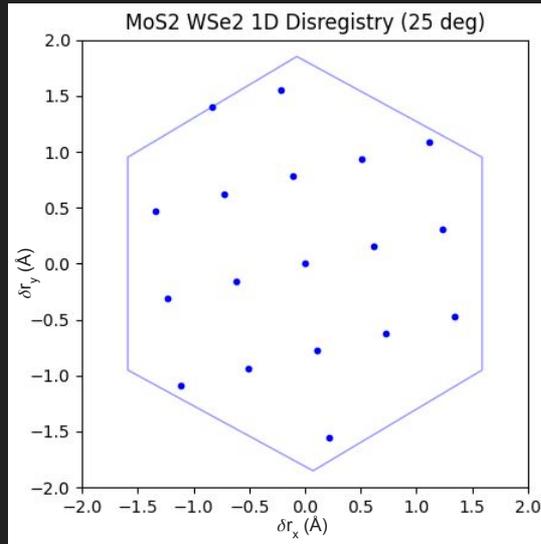
W count: 18





Pitfalls Cont.

Minimal positional changes observed in reconstruction of Q1D structure at 25-degree twist, but voronoi cell alignment seems to be offset by 180 degrees

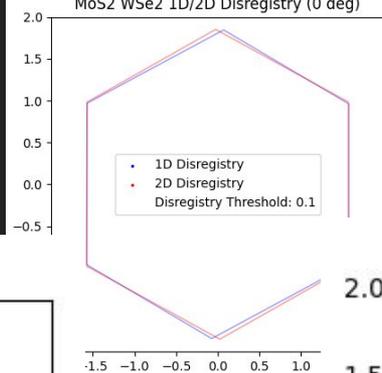


25 degree twist angle for Q1D Pre Relaxation vs. Post Relaxation

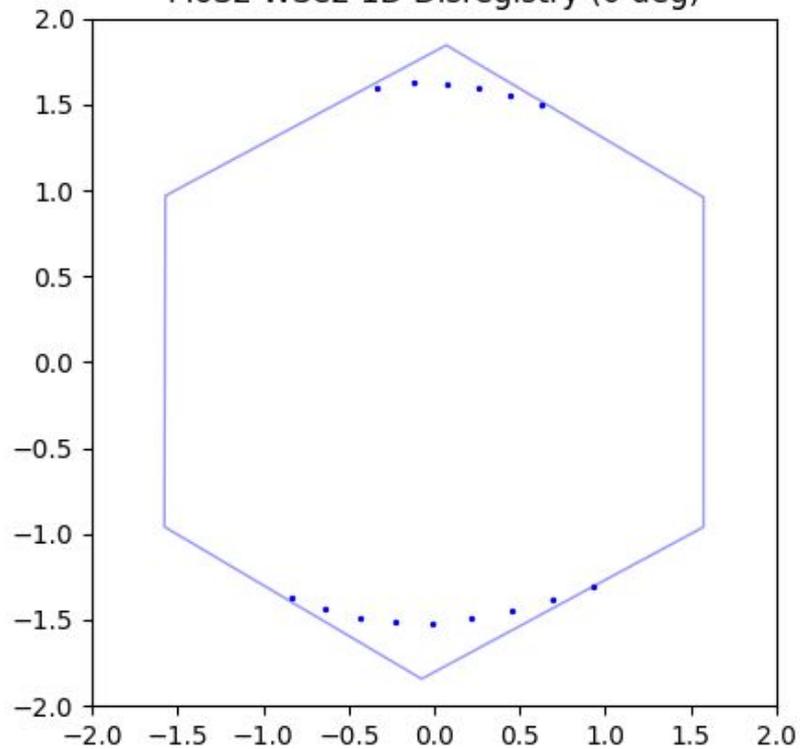
Post Relaxation

0 Degrees

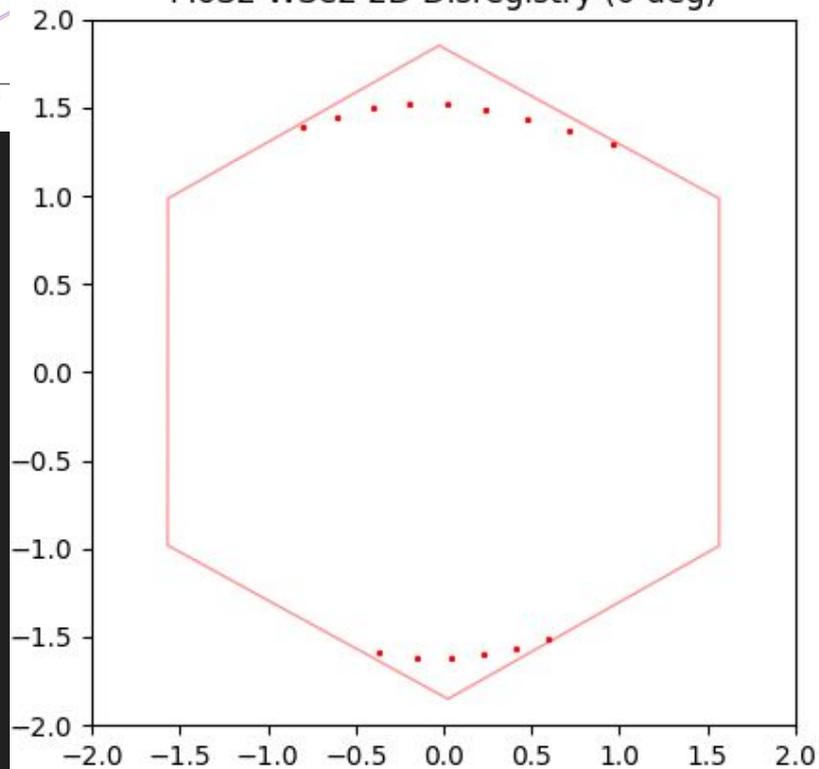
MoS2 WSe2 1D/2D Disregistry (0 deg)



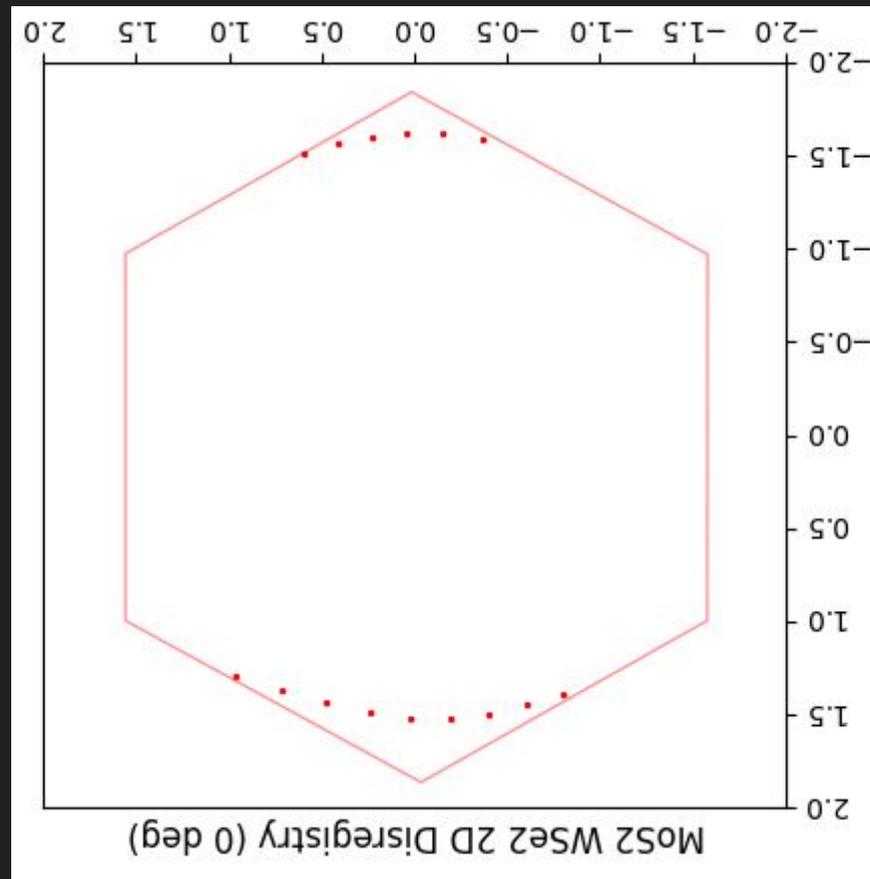
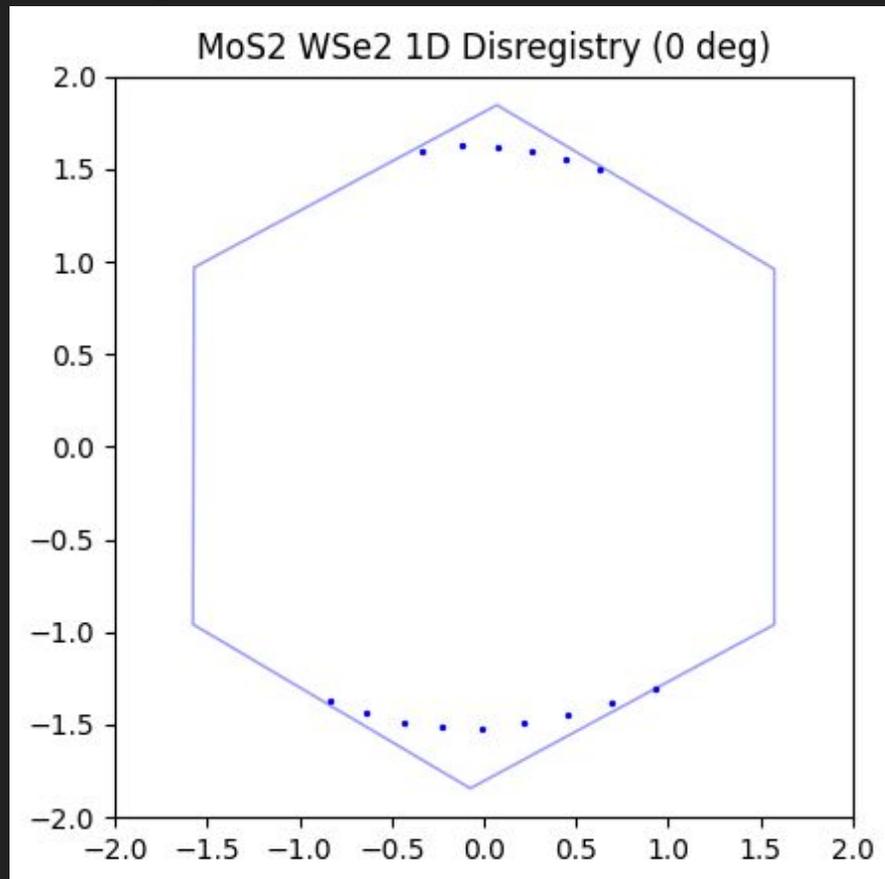
MoS2 WSe2 1D Disregistry (0 deg)



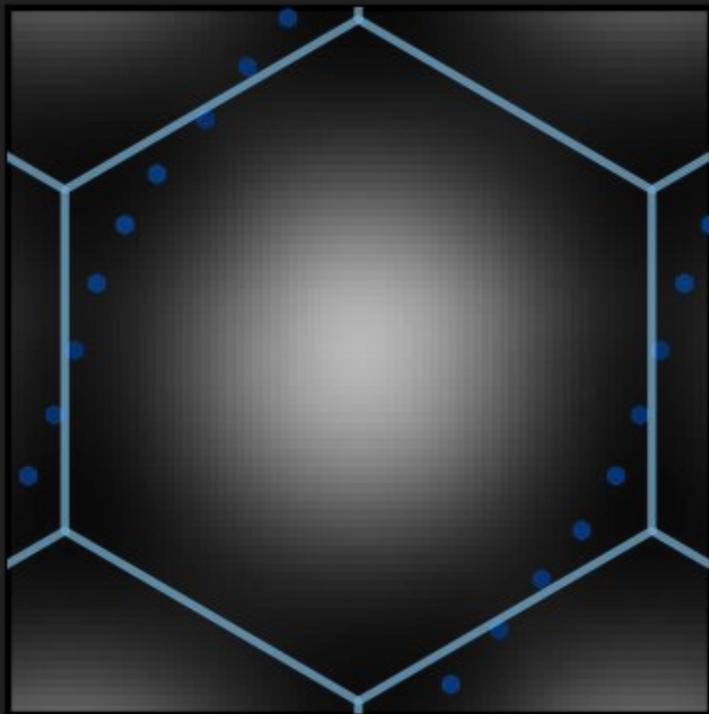
MoS2 WSe2 2D Disregistry (0 deg)



0 deg



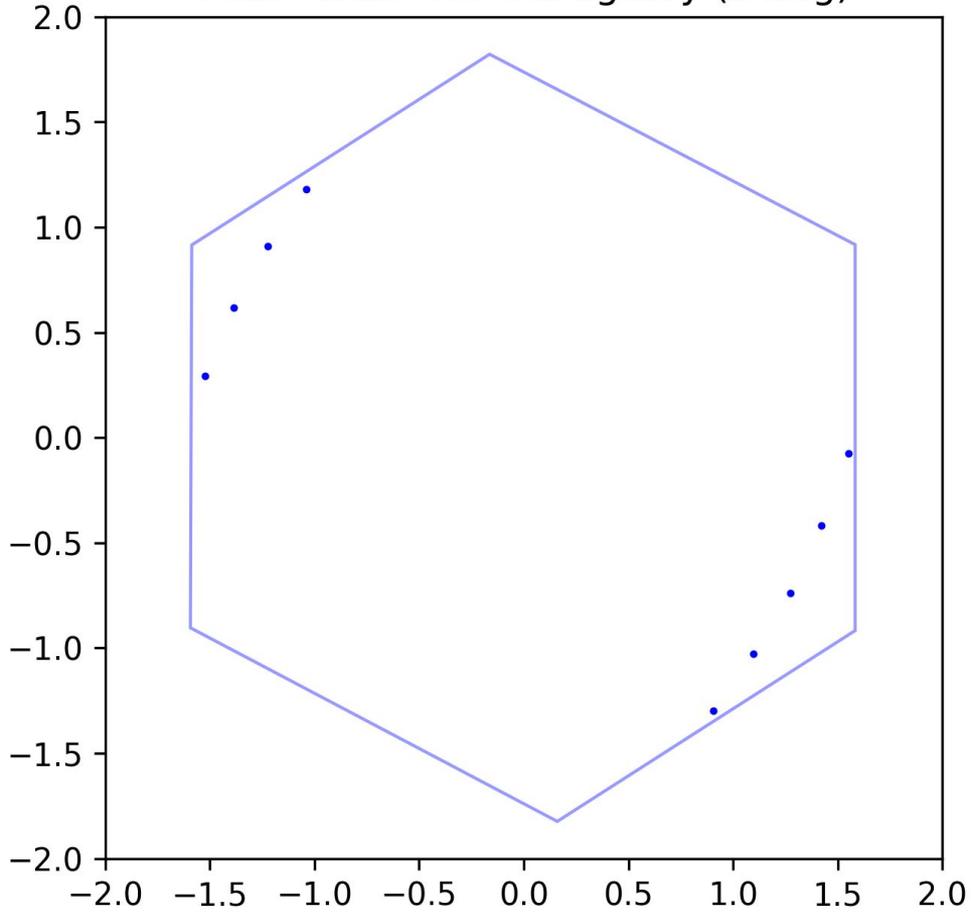
5 Degrees



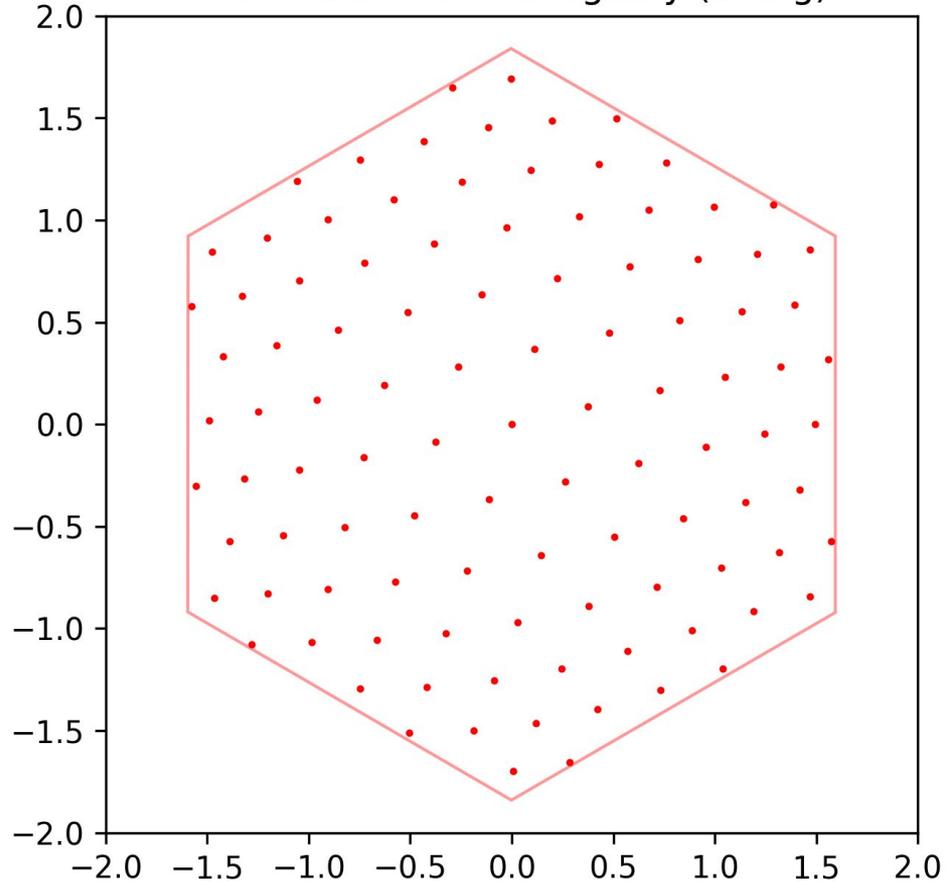
Actual Twist Angle: 4.98473281763
Total Atoms: 57
W Atoms (Top Layer): 9
Mo Atoms (Bottom Layer): 10

Actual Twist Angle: 4.97900323968
Total Atoms: 642
W Atoms (Top Layer): 103
Mo Atoms (Bottom Layer): 111

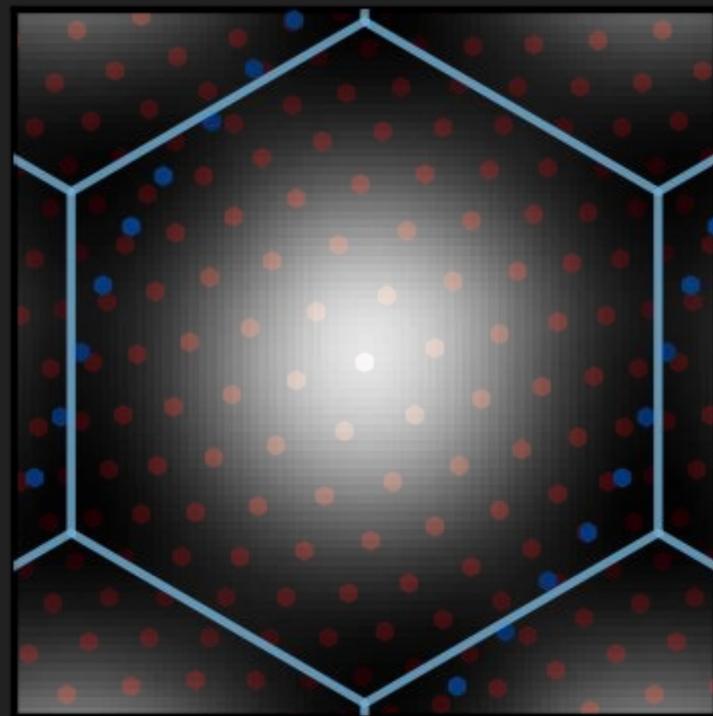
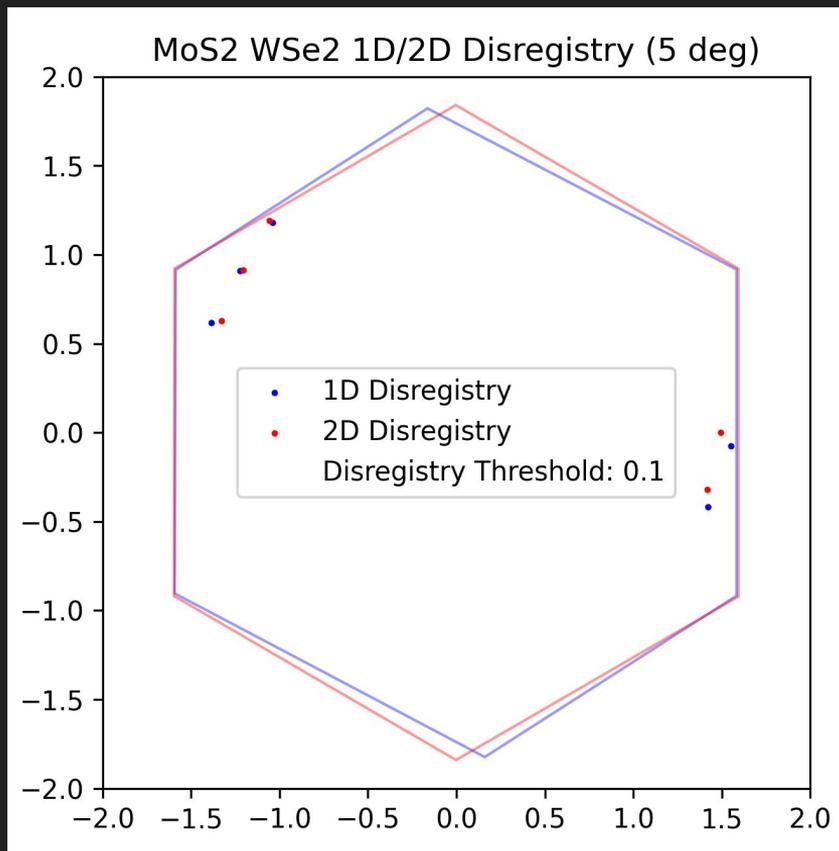
MoS2 WSe2 1D Disregistry (5 deg)



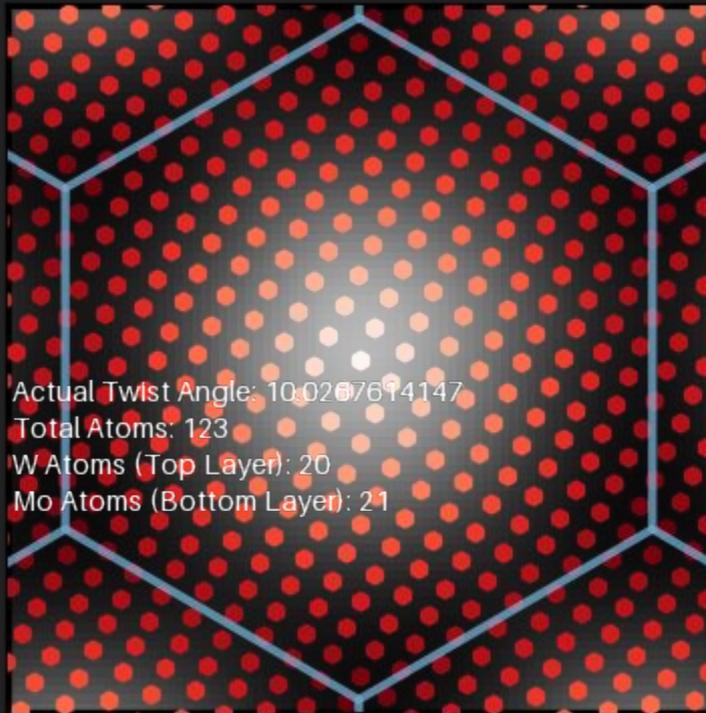
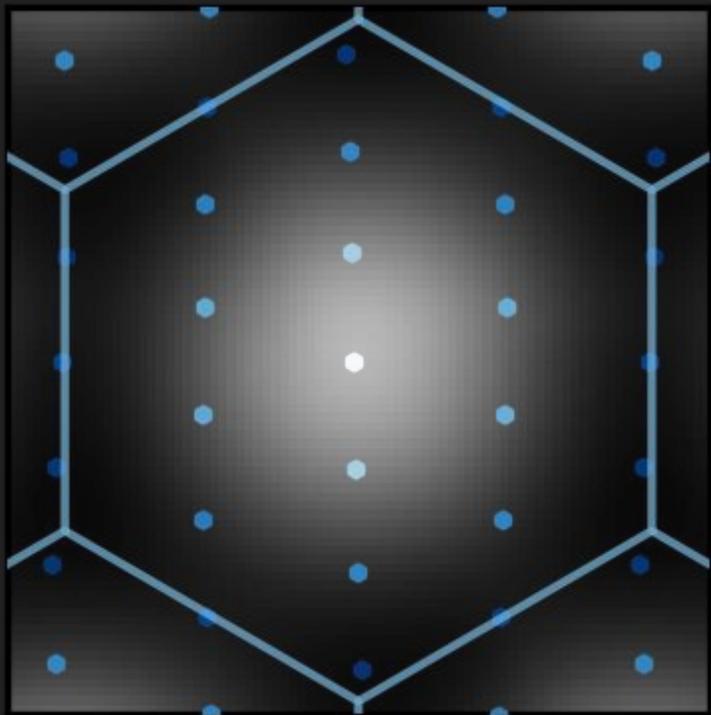
MoS2 WSe2 2D Disregistry (5 deg)



5 deg



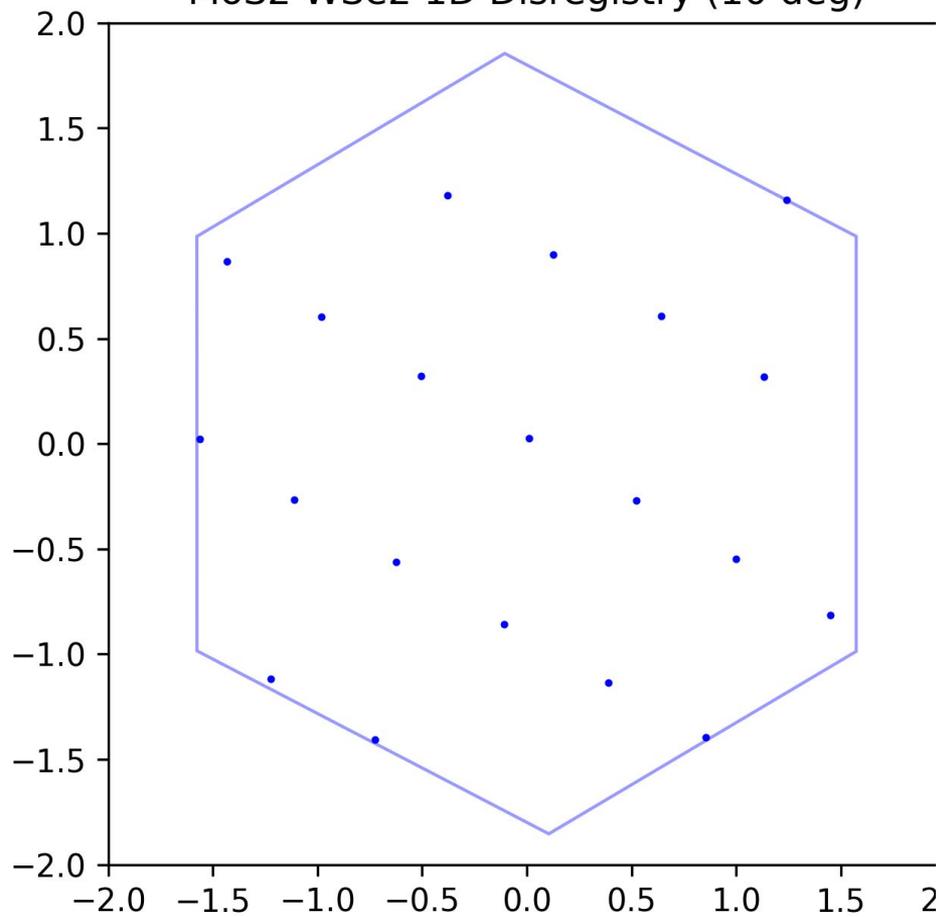
10 deg



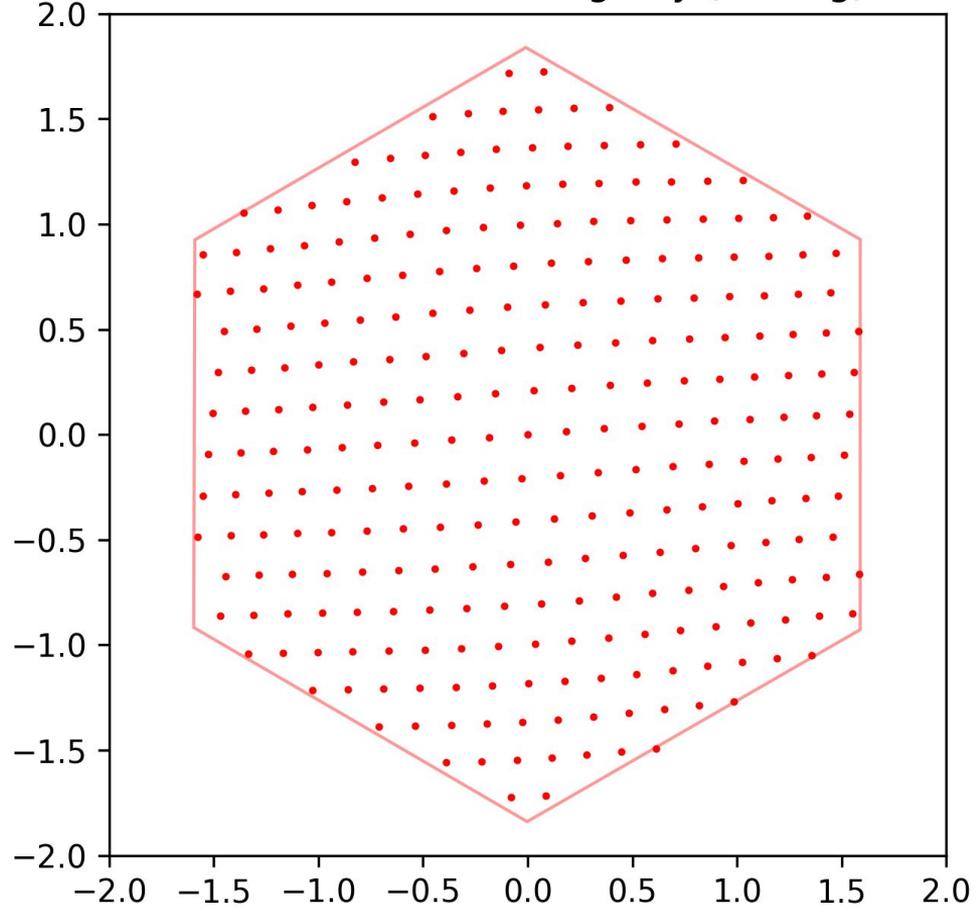
Actual Twist Angle: 10.0267614147
Total Atoms: 123
W Atoms (Top Layer): 20
Mo Atoms (Bottom Layer): 21

Actual Twist Angle: 9.99811352503
Total Atoms: 1707
W Atoms (Top Layer): 273
Mo Atoms (Bottom Layer): 296

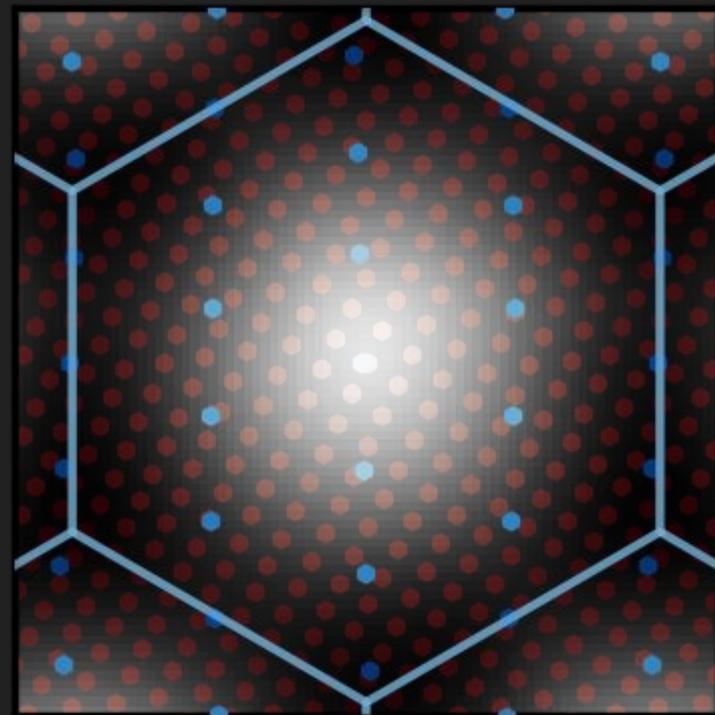
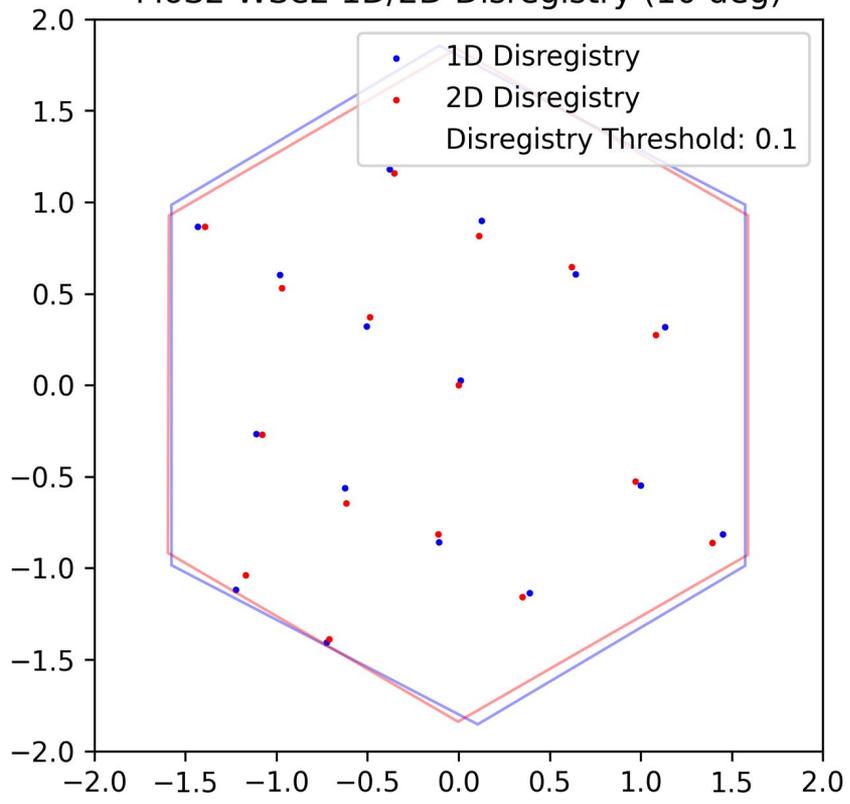
MoS2 WSe2 1D Disregistry (10 deg)



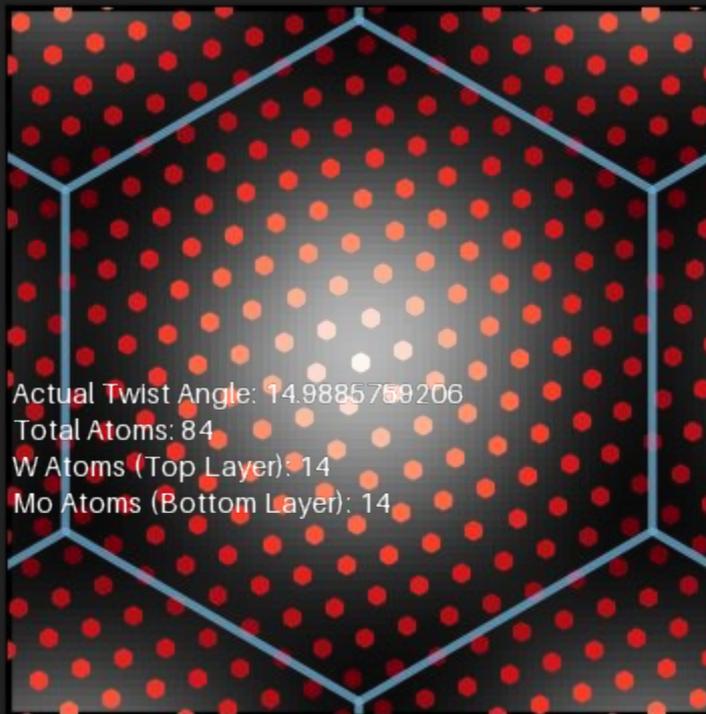
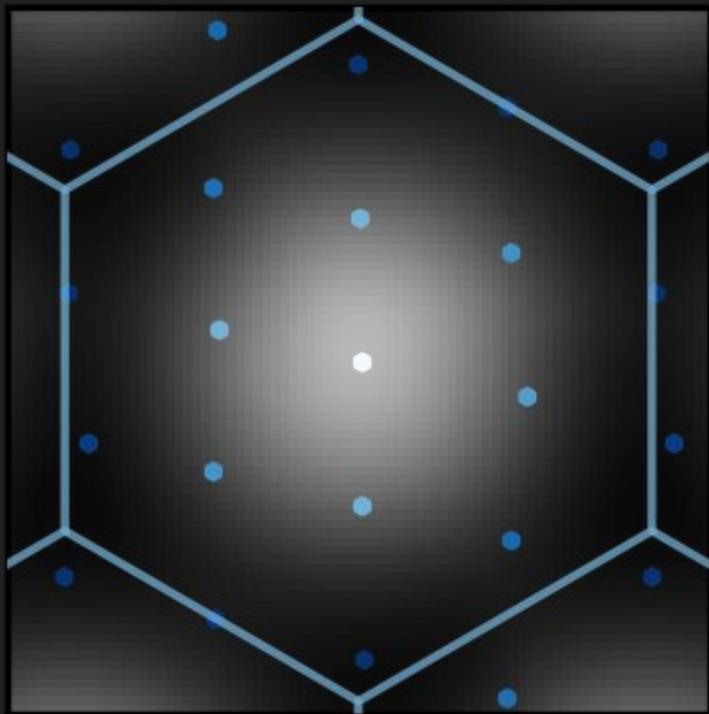
MoS2 WSe2 2D Disregistry (10 deg)



MoS2 WSe2 1D/2D Disregistry (10 deg)

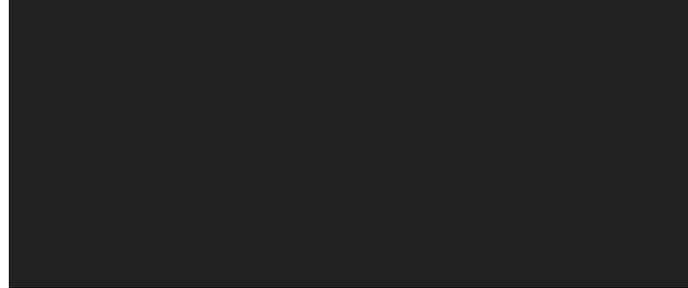
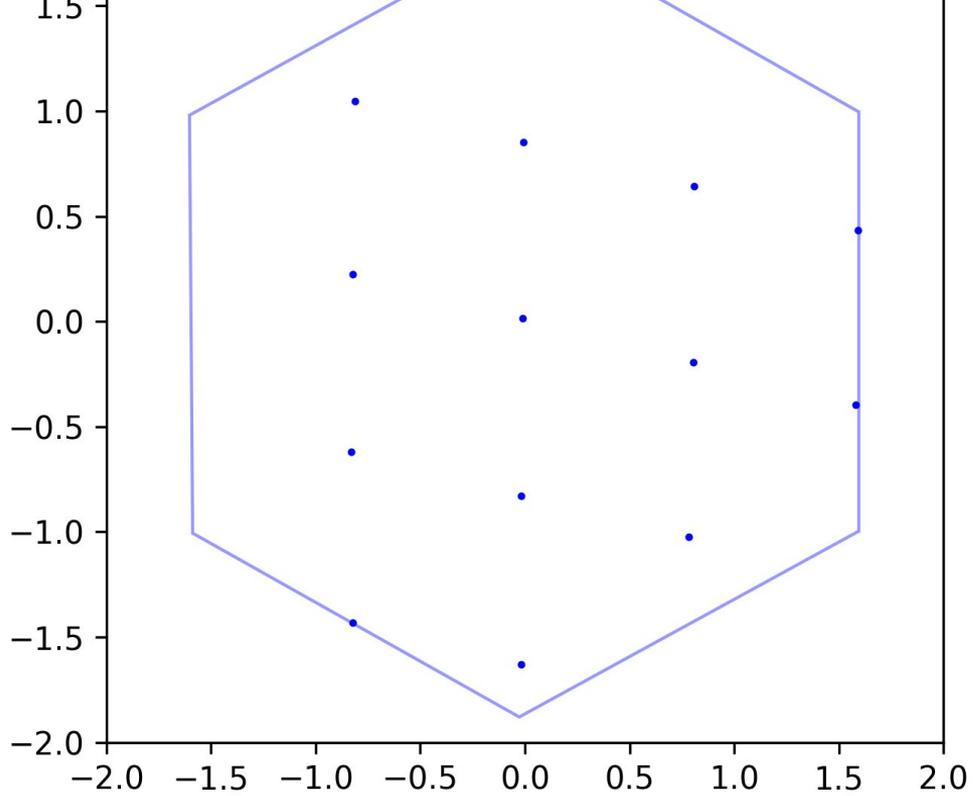


15 deg

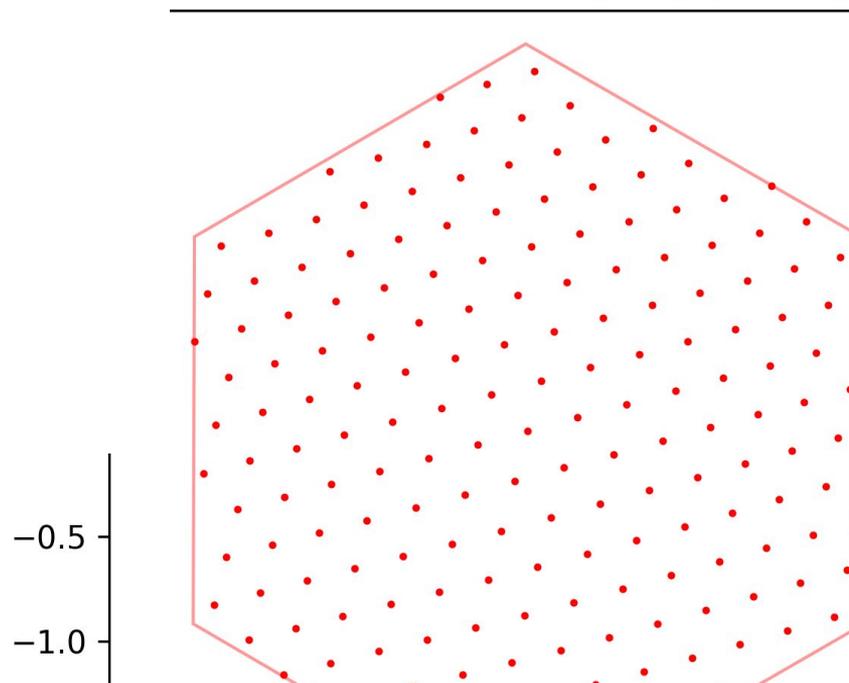


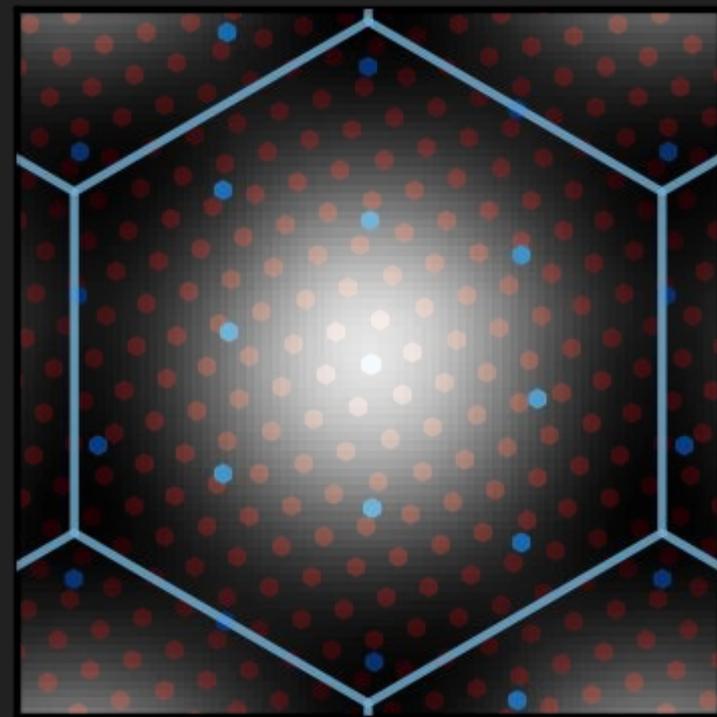
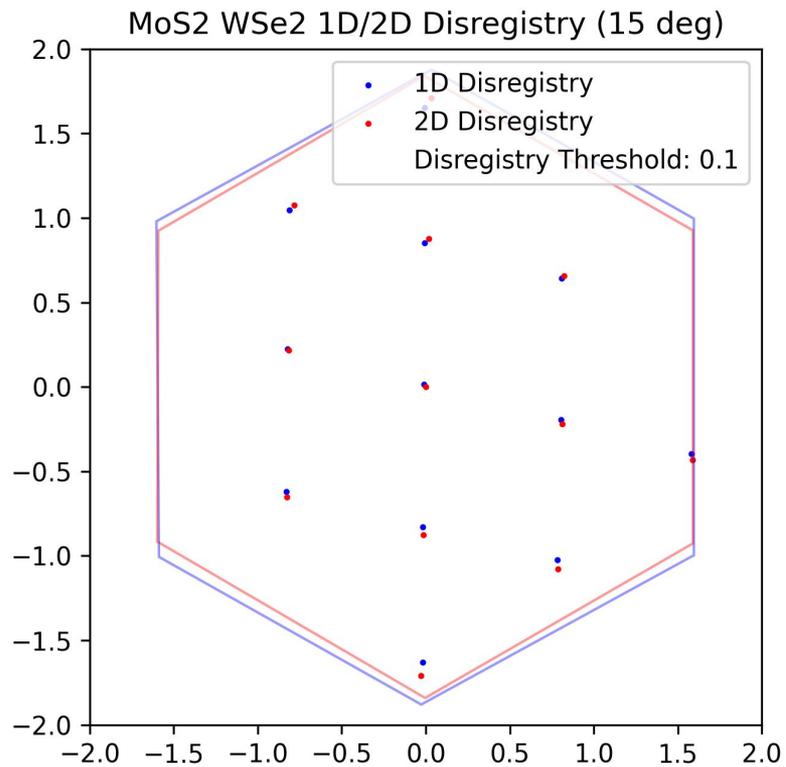
Actual Twist Angle: 14.9885759206
Total Atoms: 84
W Atoms (Top Layer): 14
Mo Atoms (Bottom Layer): 14

Actual Twist Angle: 15.0172238103
Total Atoms: 1131
W Atoms (Top Layer): 181
Mo Atoms (Bottom Layer): 196

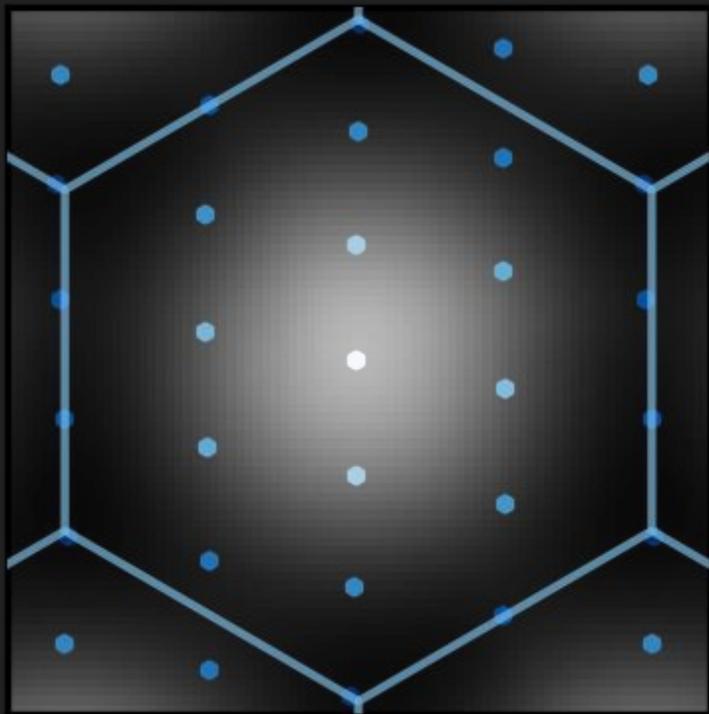


MoS₂ WSe₂ 2D Disregistry (15 deg)



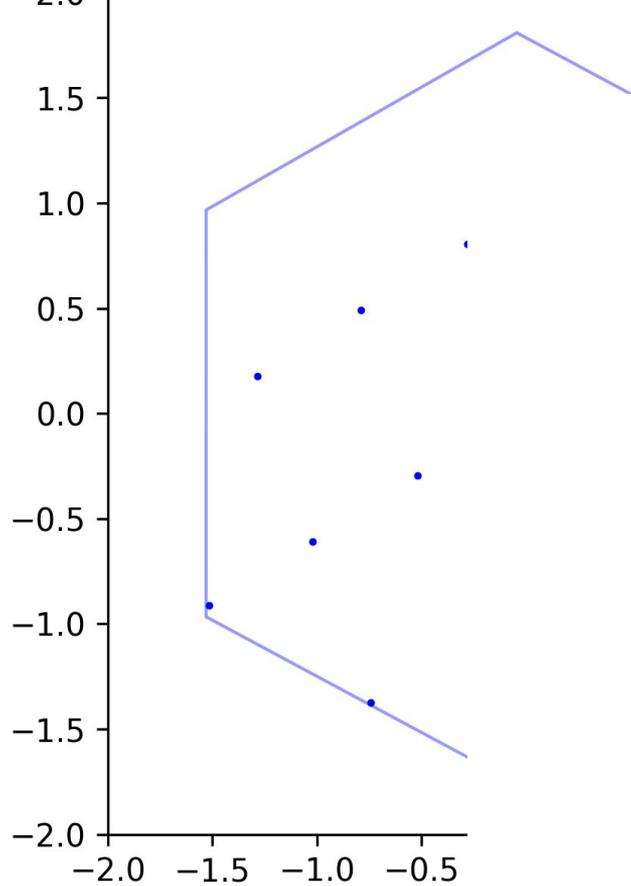


20 deg

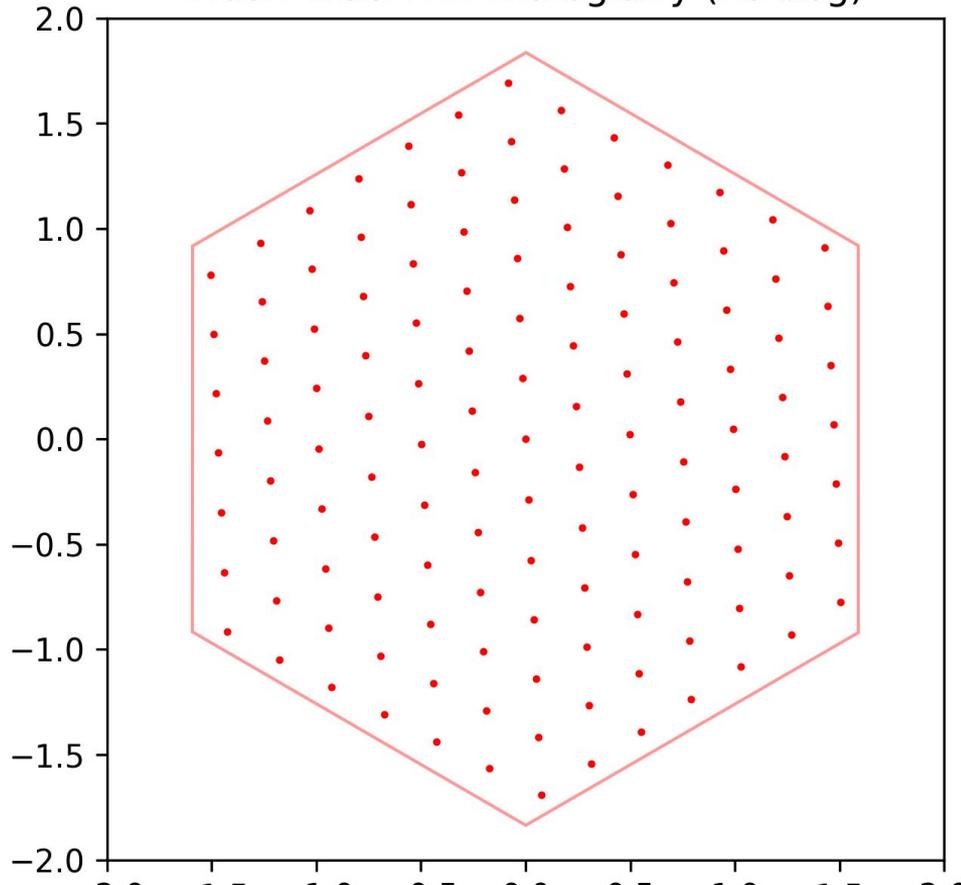


Actual Twist Angle: 19.9675791603
Total Atoms: 117
W Atoms (Top Layer): 18
Mo Atoms (Bottom Layer): 21

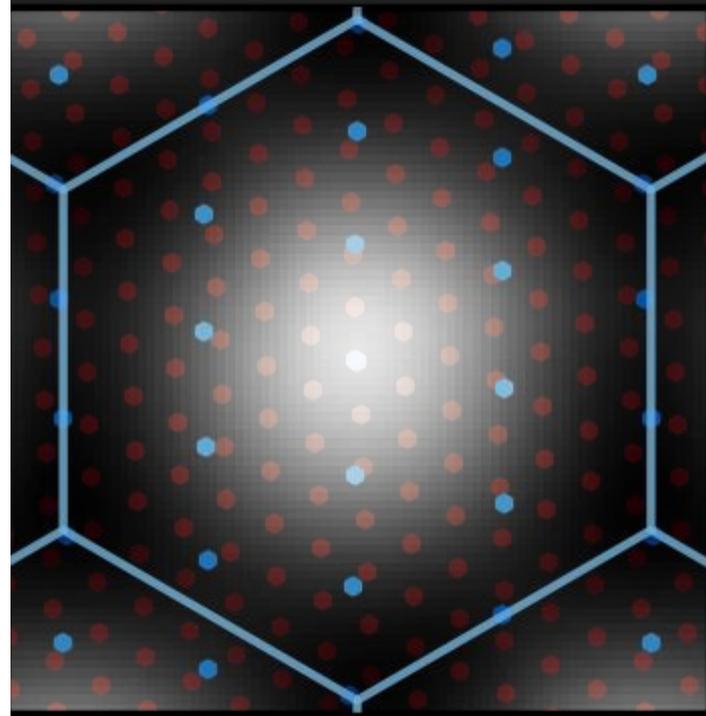
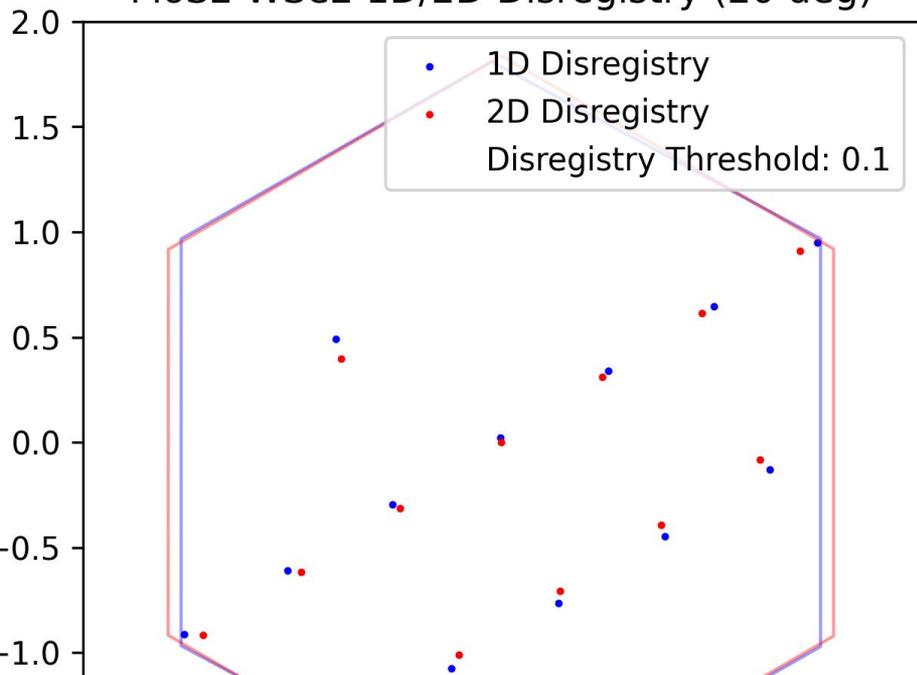
Actual Twist Angle: 19.9790383162
Total Atoms: 798
W Atoms (Top Layer): 127
Mo Atoms (Bottom Layer): 139



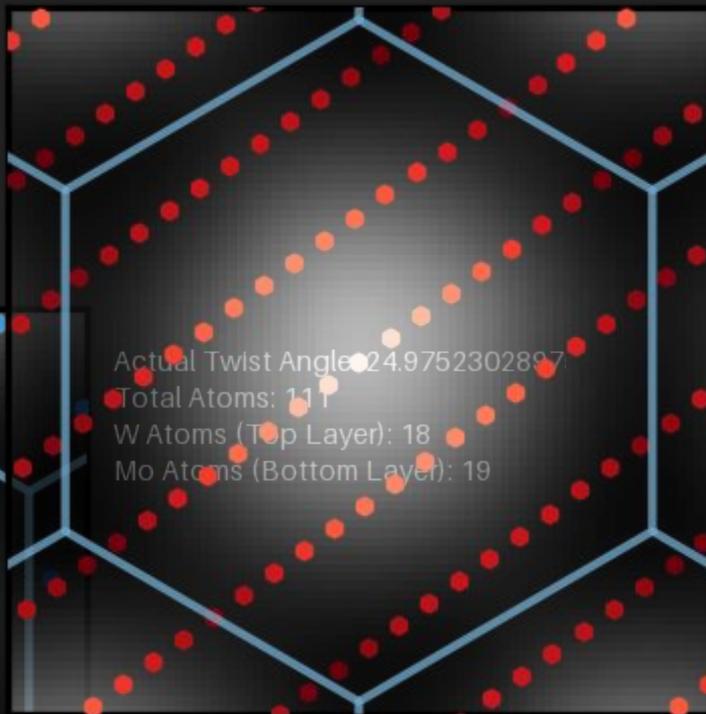
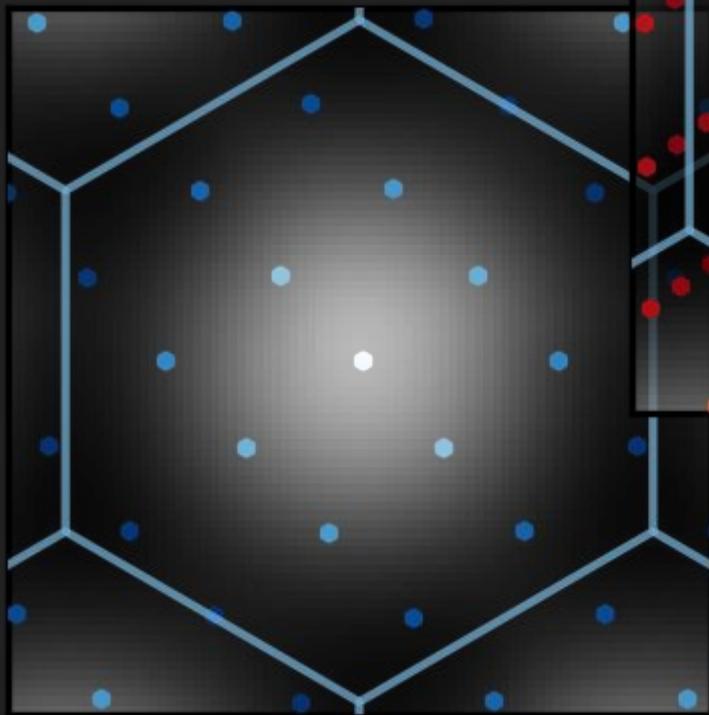
MoS2 WSe2 2D Disregistry (20 deg)



MoS2 WSe2 1D/2D Disregistry (20 deg)



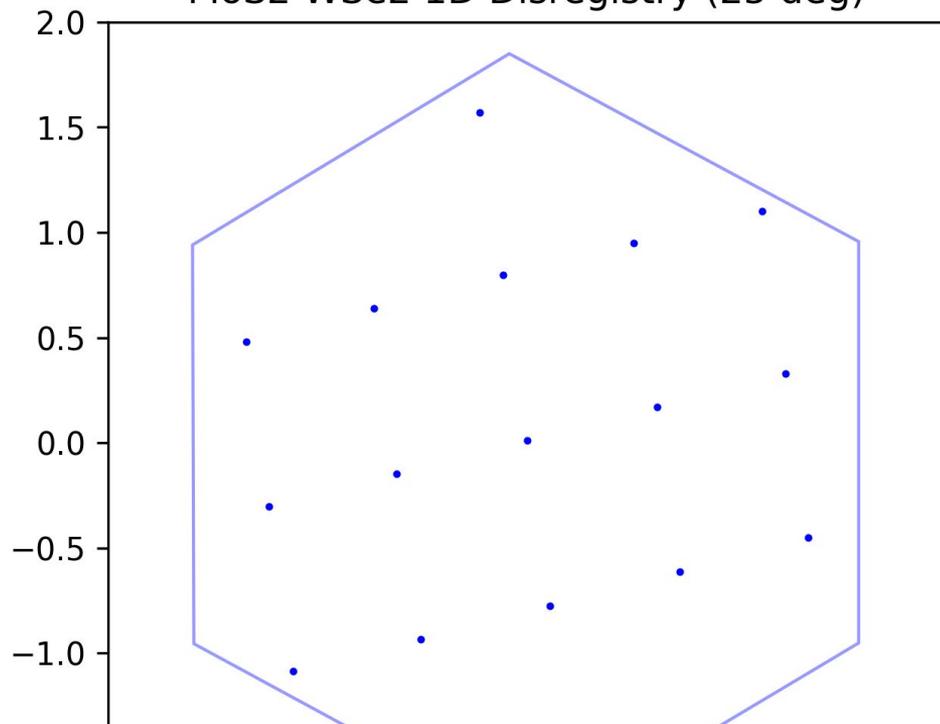
25 deg



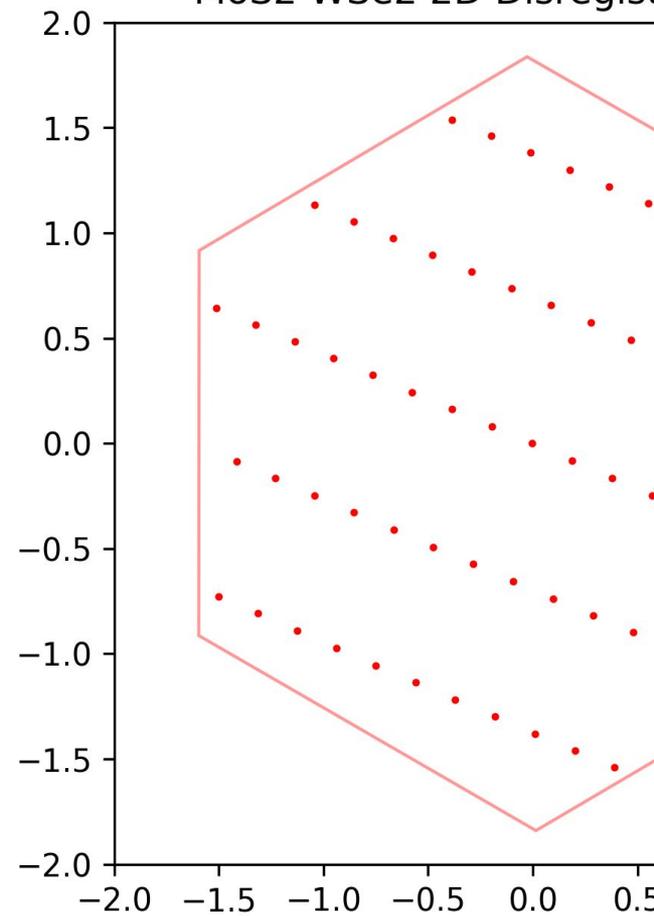
Actual Twist Angle: 24.9752302897
Total Atoms: 111
W Atoms (Top Layer): 18
Mo Atoms (Bottom Layer): 19

Actual Twist Angle: 24.9866894456
Total Atoms: 426
W Atoms (Top Layer): 68
Mo Atoms (Bottom Layer): 74

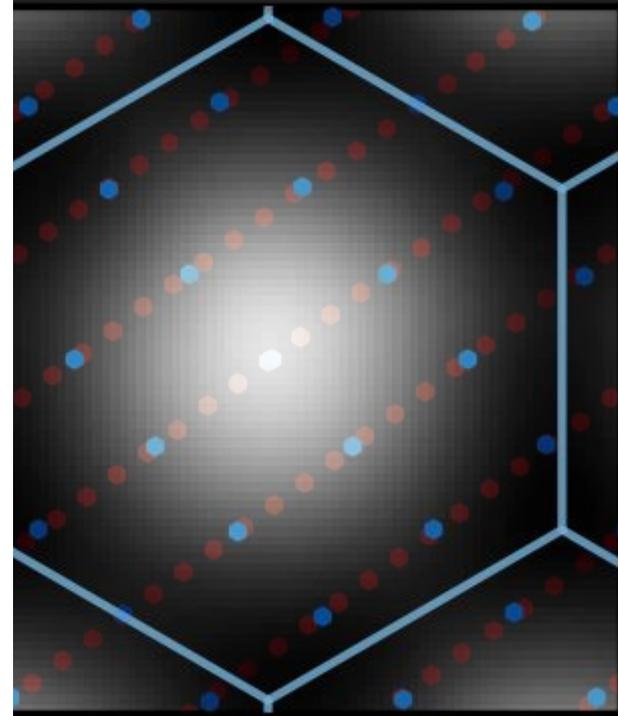
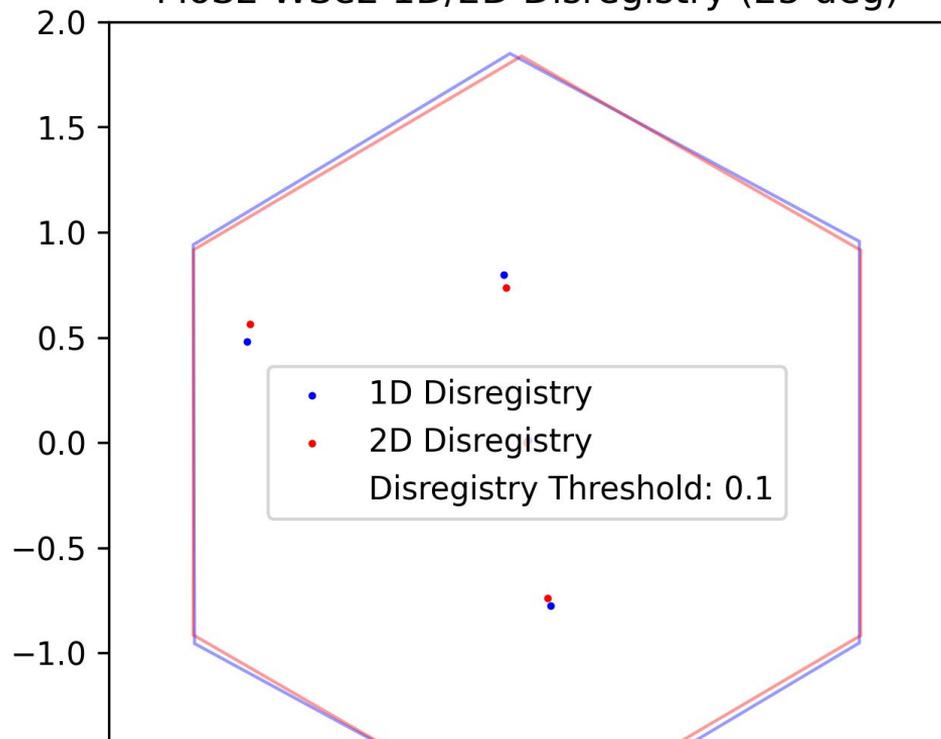
MoS2 WSe2 1D Disregistry (25 deg)



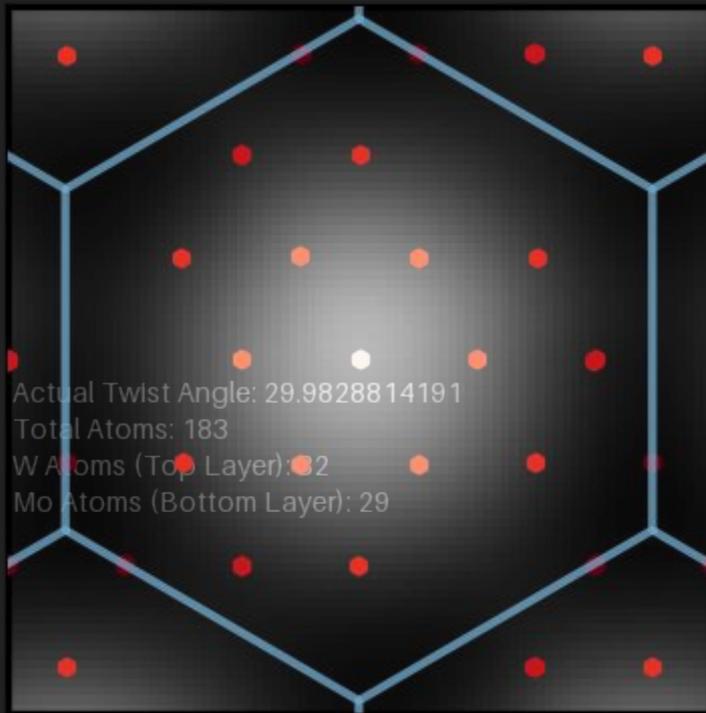
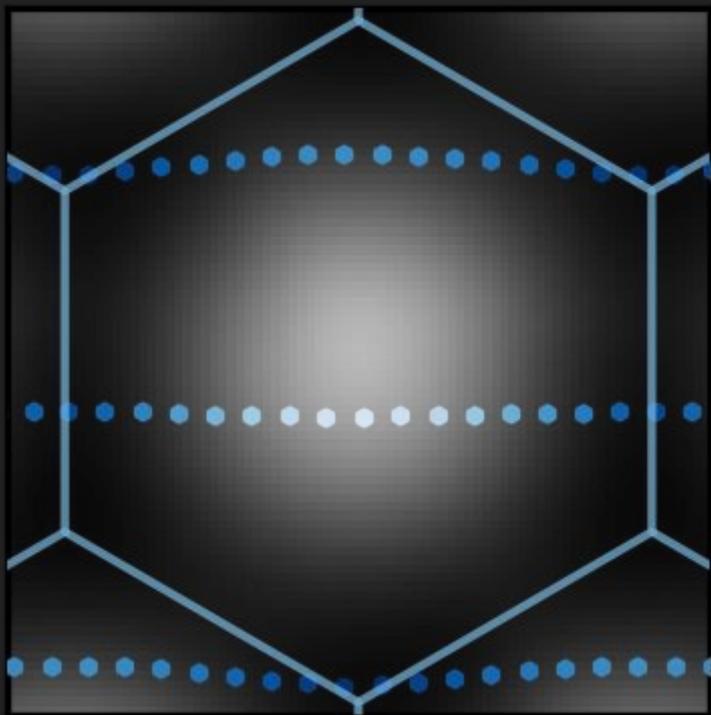
MoS2 WSe2 2D Disregistry



MoS2 WSe2 1D/2D Disregistry (25 deg)



30 deg



Actual Twist Angle: 30.0172588869

Total Atoms: 156

W Atoms (Top Layer): 25

Mo Atoms (Bottom Layer): 27

Actual Twist Angle: 29.9828814191

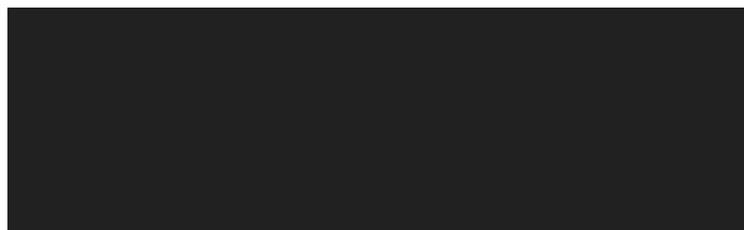
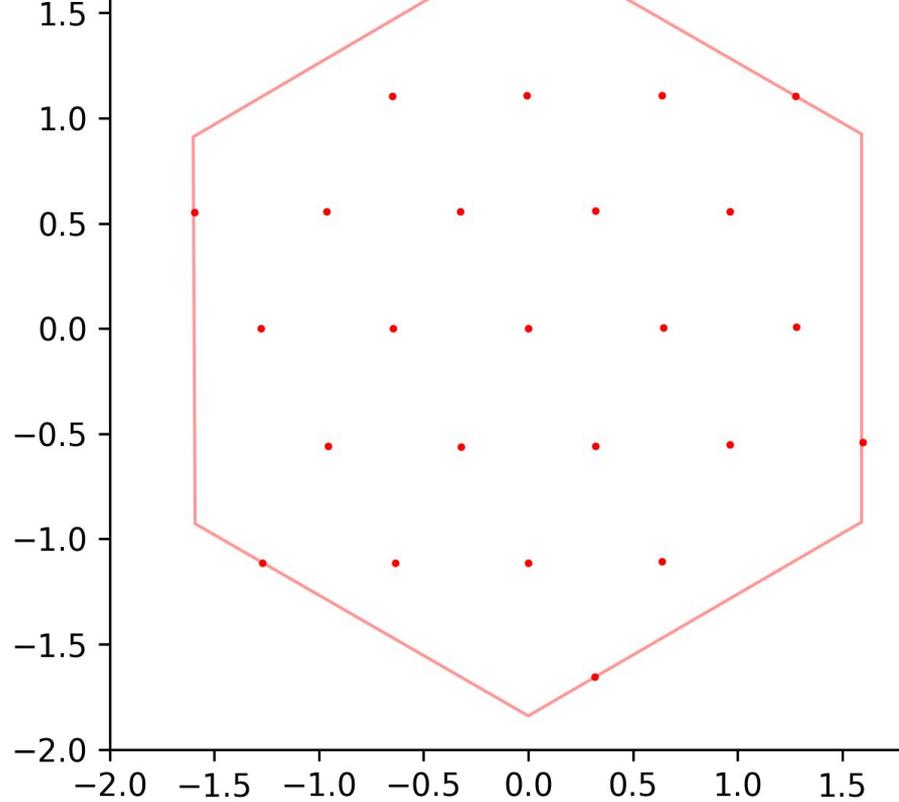
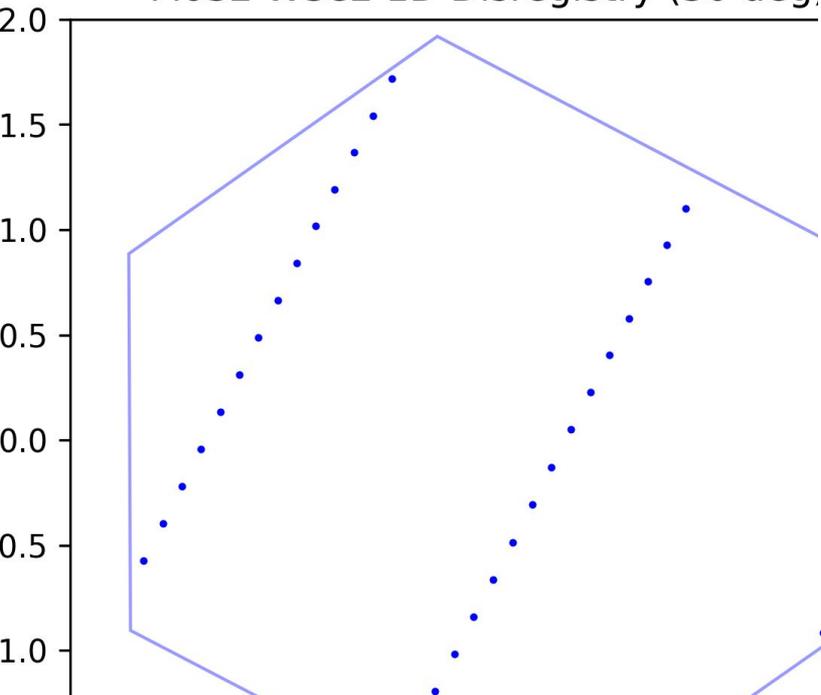
Total Atoms: 183

W Atoms (Top Layer): 32

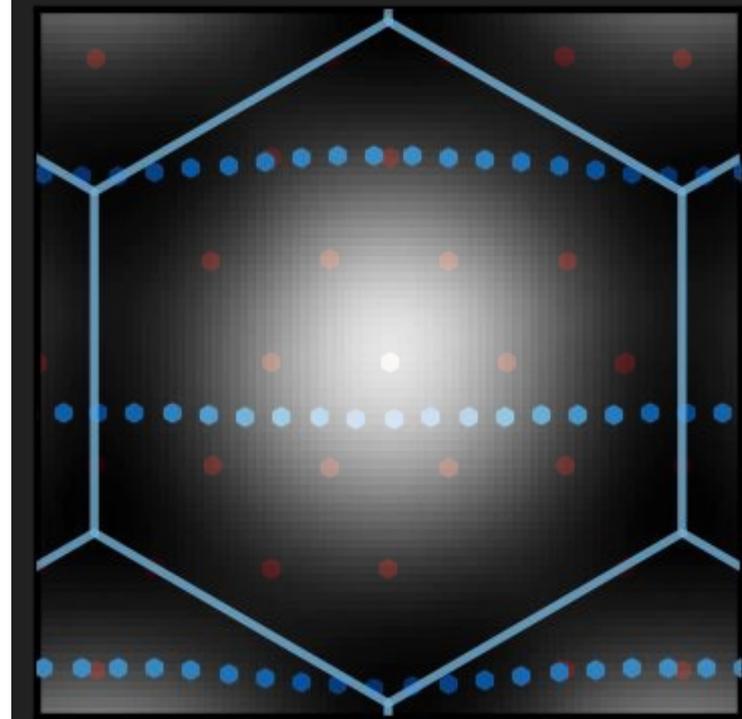
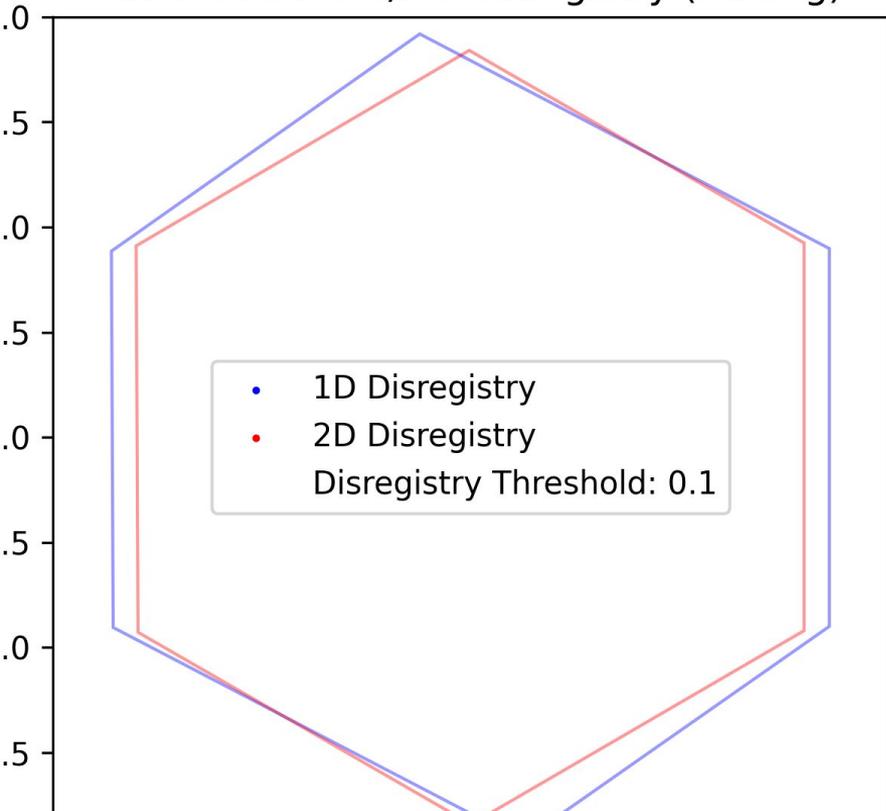
Mo Atoms (Bottom Layer): 29



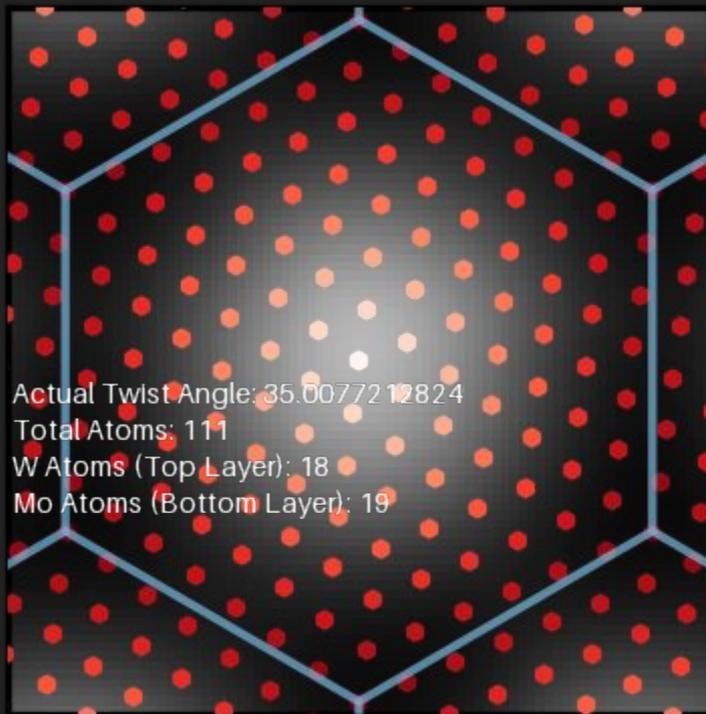
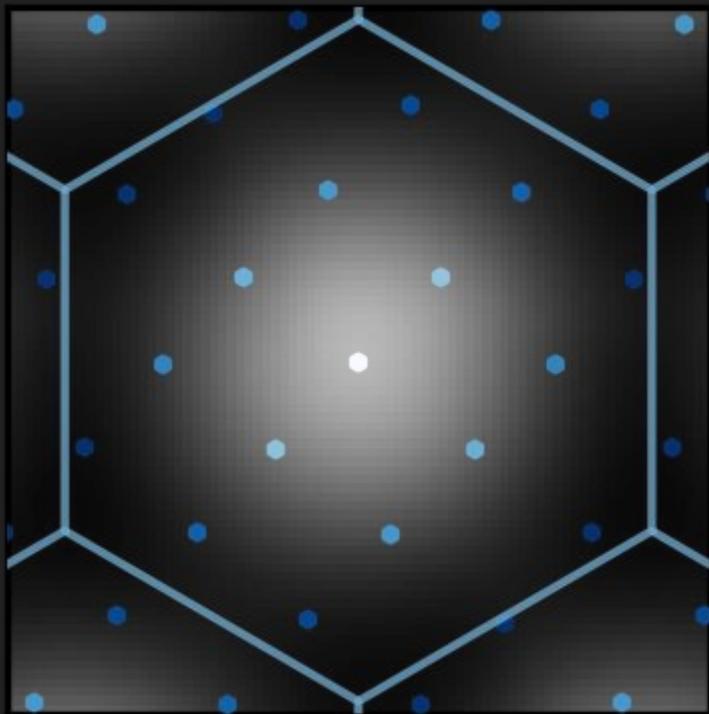
MoS2 WSe2 1D Disregistry (30 deg)



MoS2 WSe2 1D/2D Disregistry (30 deg)



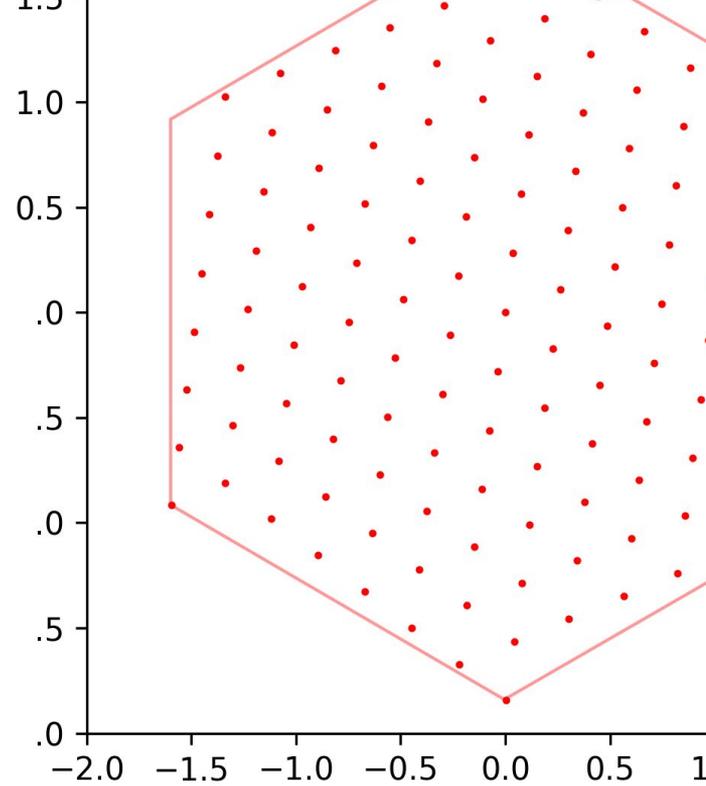
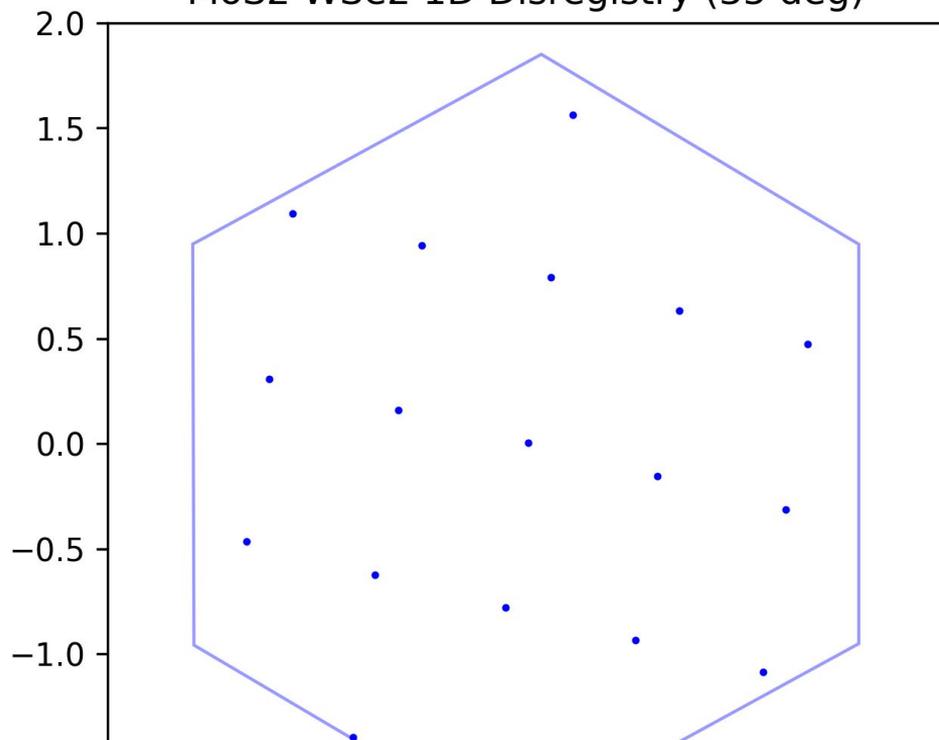
35 deg



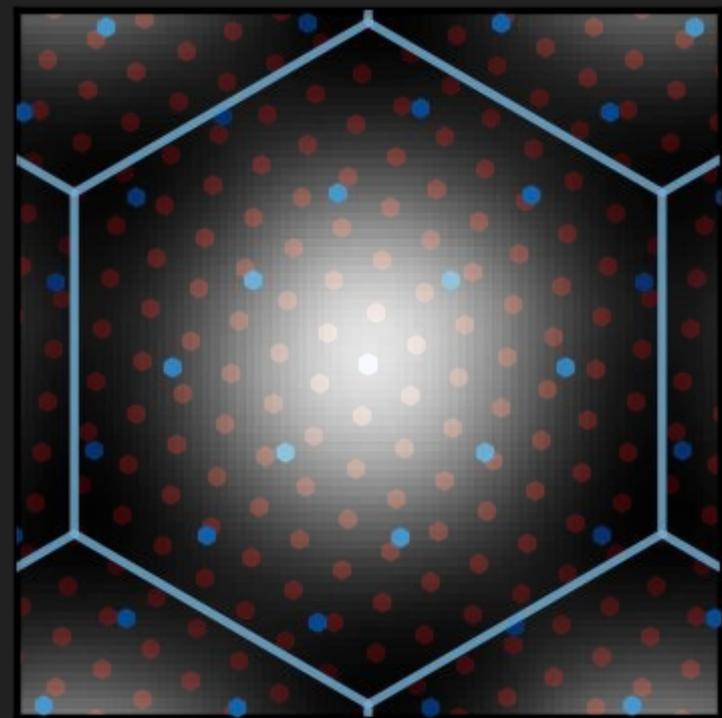
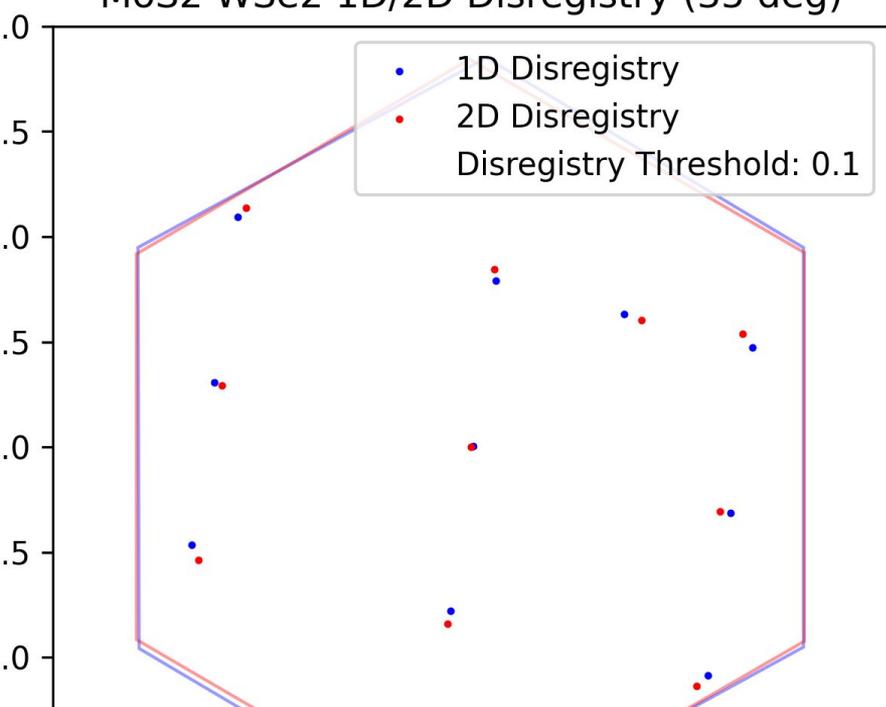
Actual Twist Angle: 35.0077212824
Total Atoms: 111
W Atoms (Top Layer): 18
Mo Atoms (Bottom Layer): 19

Actual Twist Angle: 34.9790733927
Total Atoms: 804
W Atoms (Top Layer): 129
Mo Atoms (Bottom Layer): 139

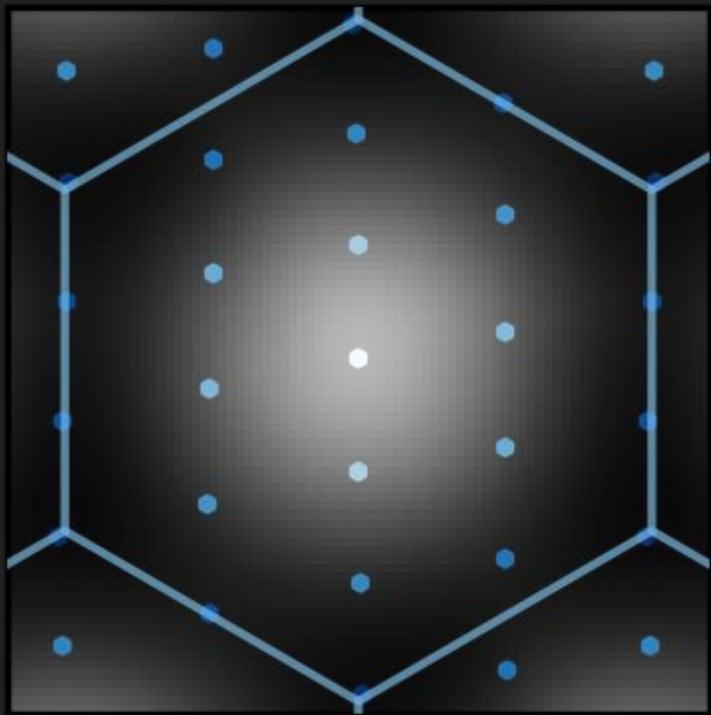
MoS2 WSe2 1D Disregistry (35 deg)



MoS2 WSe2 1D/2D Disregistry (35 deg)



40 deg

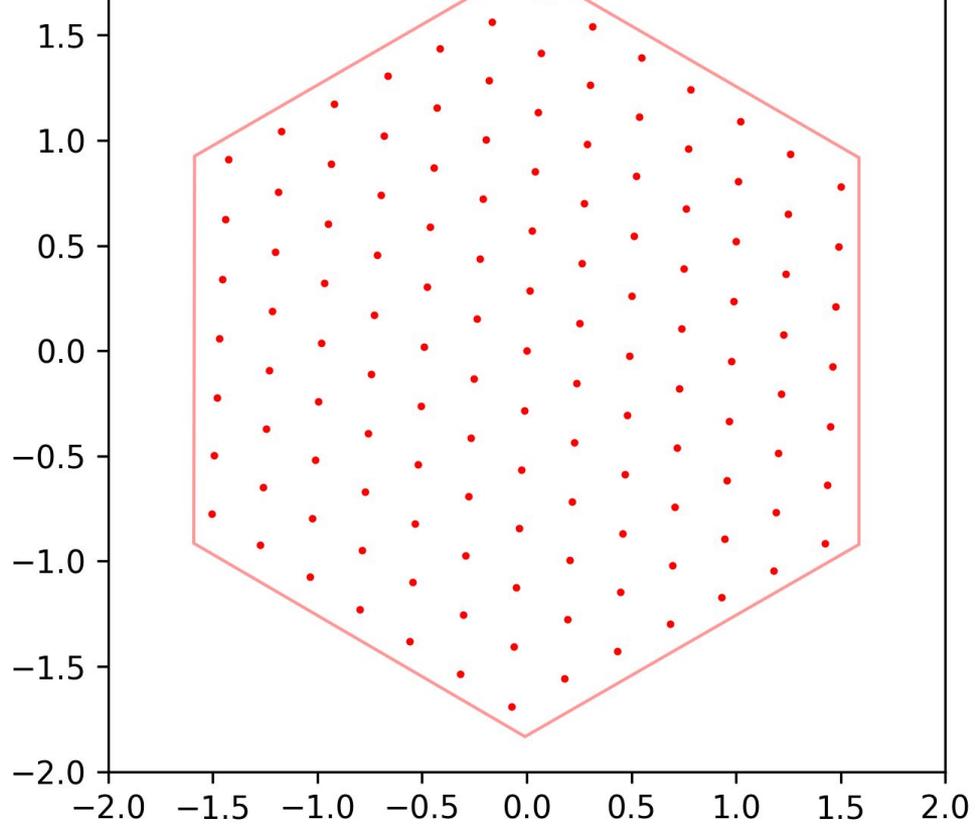
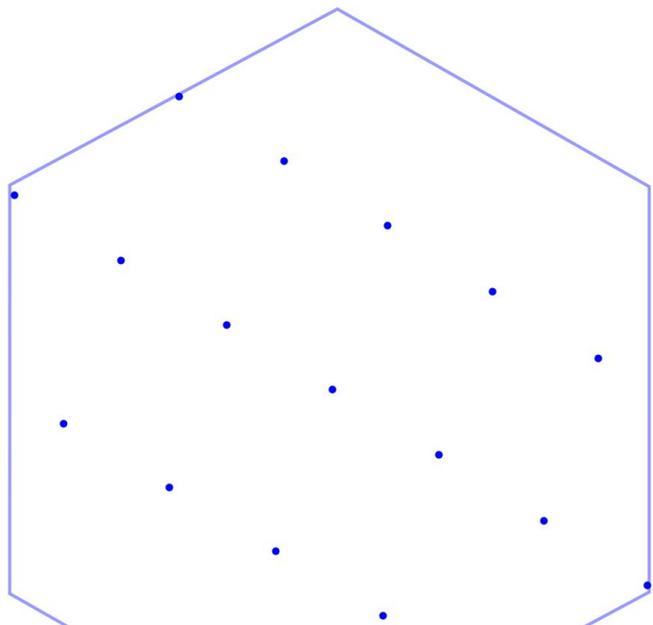


Actual Twist Angle: 40.0325617457
Total Atoms: 117
W Atoms (Top Layer): 18
Mo Atoms (Bottom Layer): 21

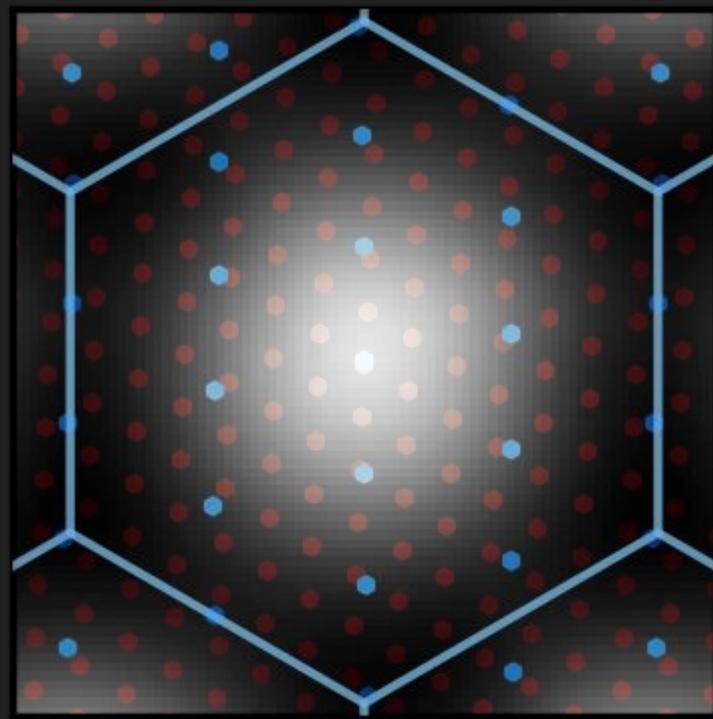
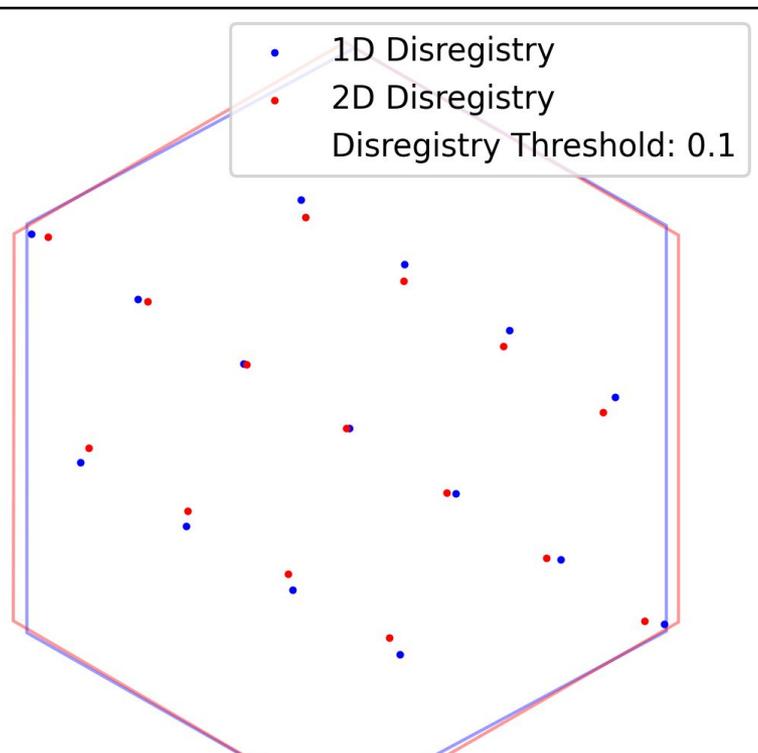
Actual Twist Angle: 40.0153724119
Total Atoms: 798
W Atoms (Top Layer): 127
Mo Atoms (Bottom Layer): 139



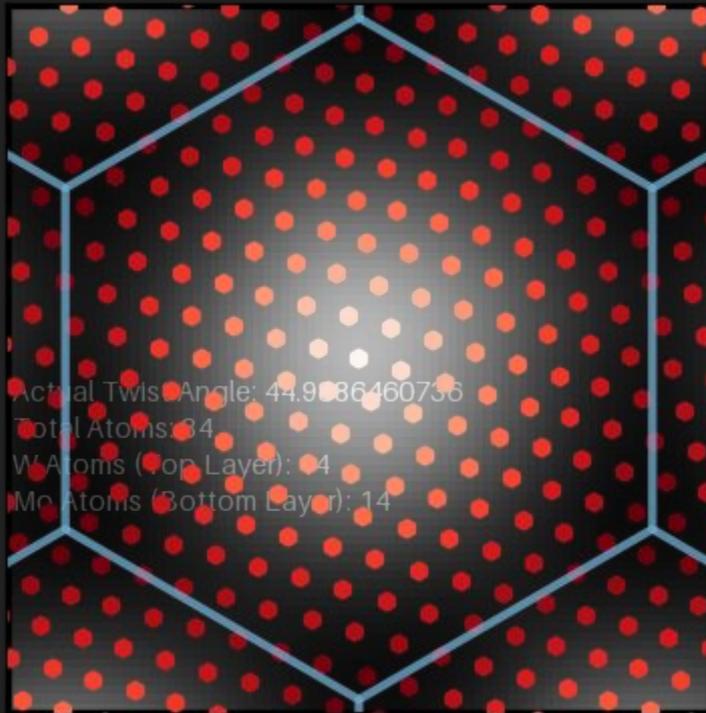
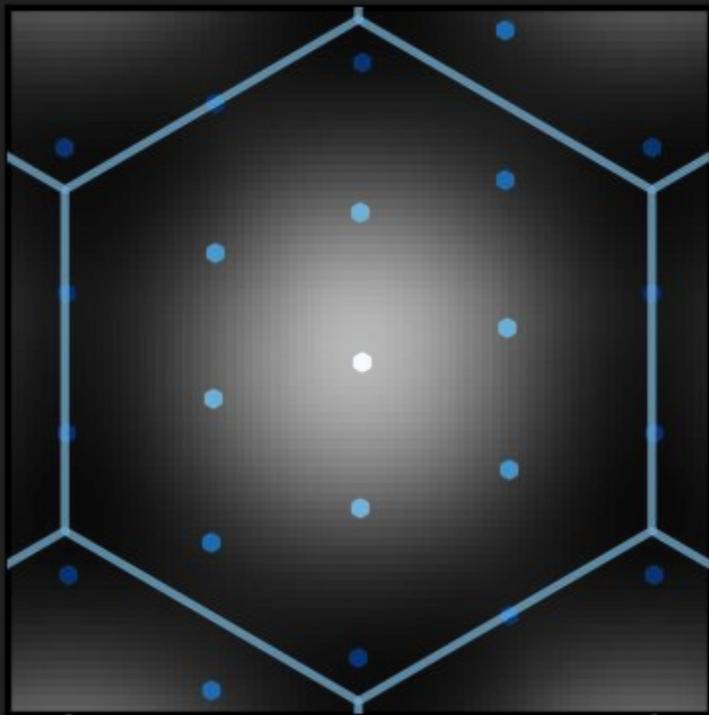
MoS2 WSe2 1D Disregistry (40 deg)



MoS2 WSe2 1D/2D Disregistry (40 deg)



45 deg

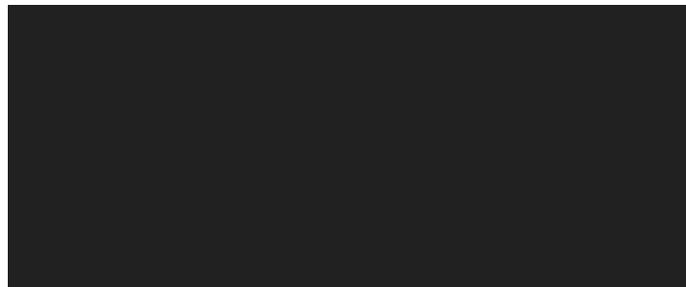
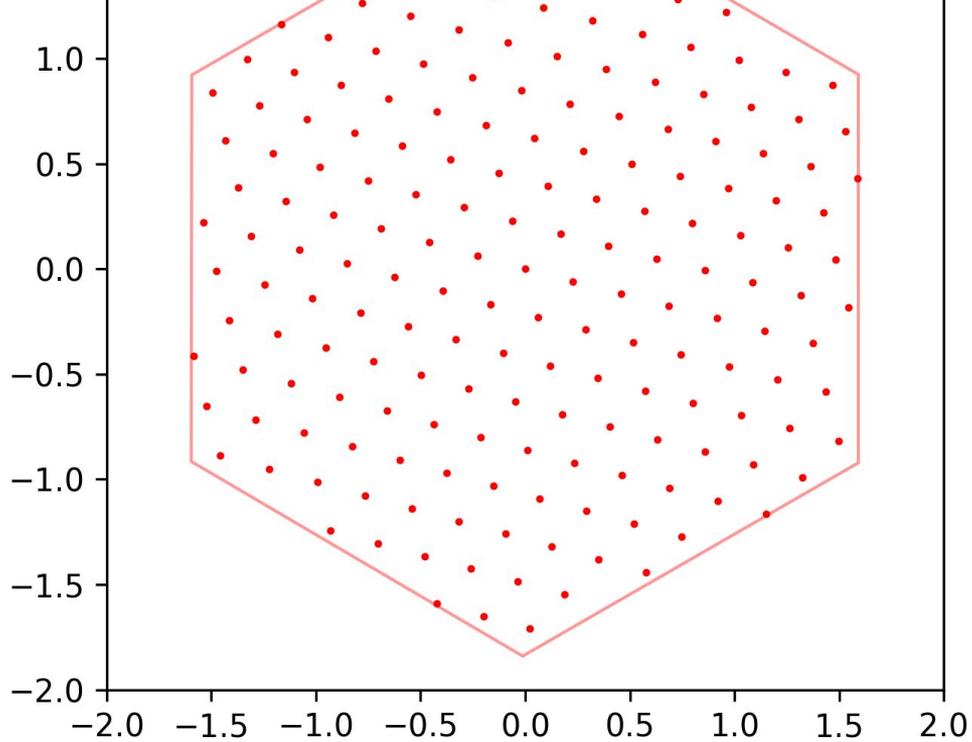
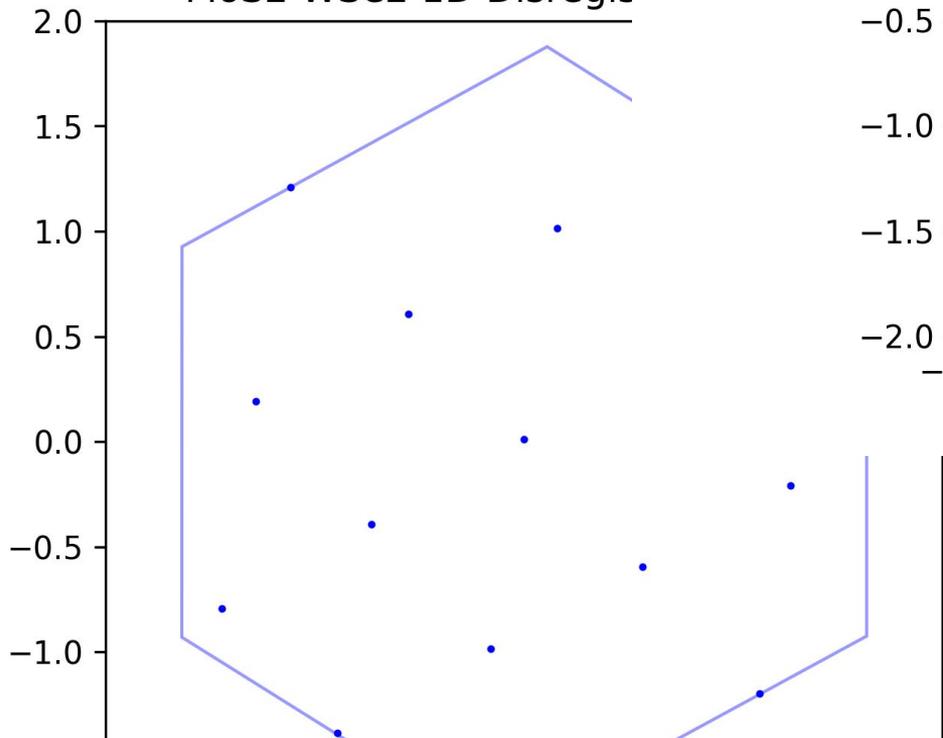


Actual Twist Angle: 44.9829164957
Total Atoms: 1131
W Atoms (Top Layer): 181
Mo Atoms (Bottom Layer): 196

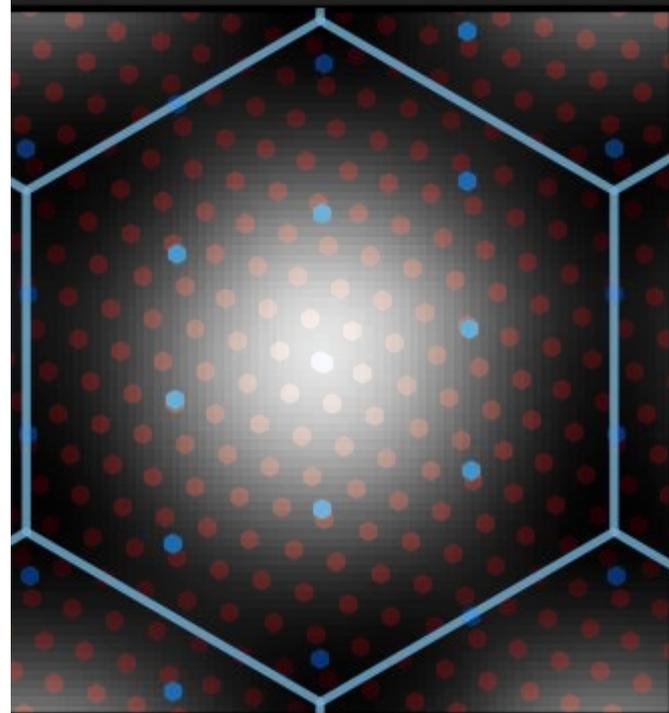
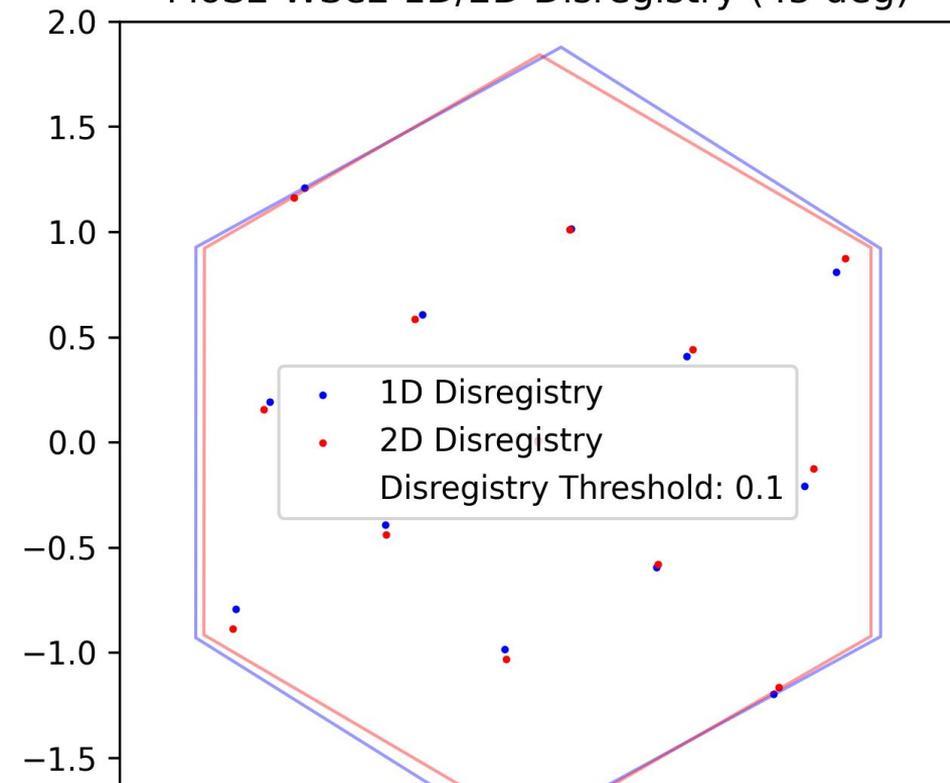
Actual Twist Angle: 44.9886460736
Total Atoms: 34
W Atoms (Top Layer): 4
Mo Atoms (Bottom Layer): 14



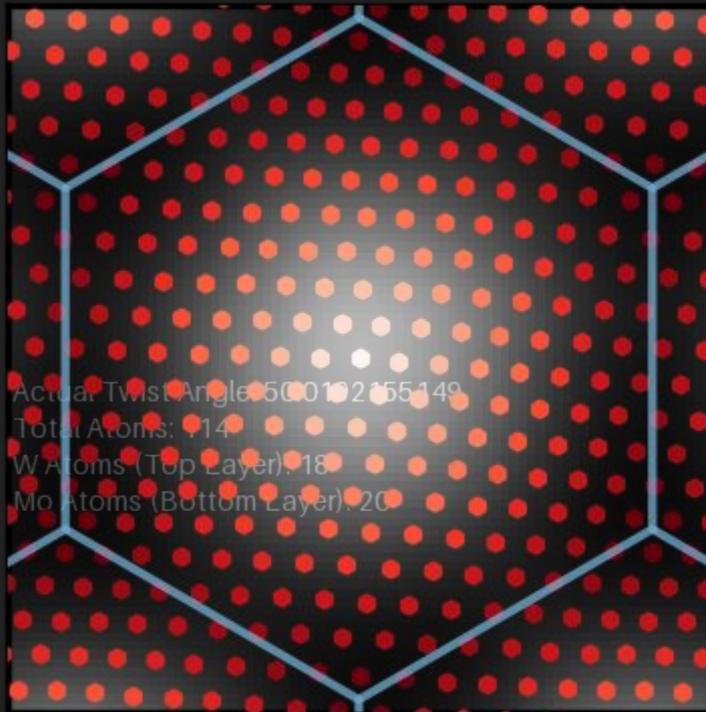
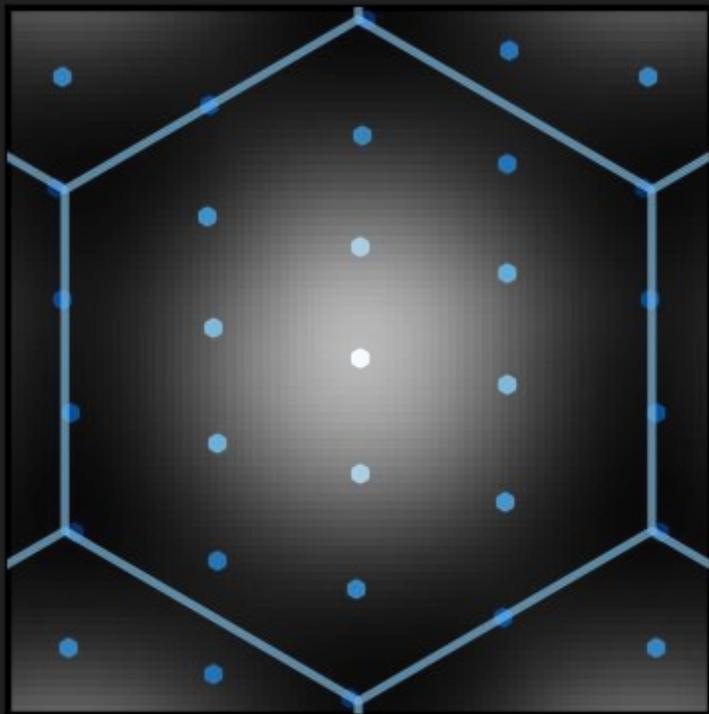
MoS2 WSe2 1D Disregis



MoS2 WSe2 1D/2D Disregistry (45 deg)



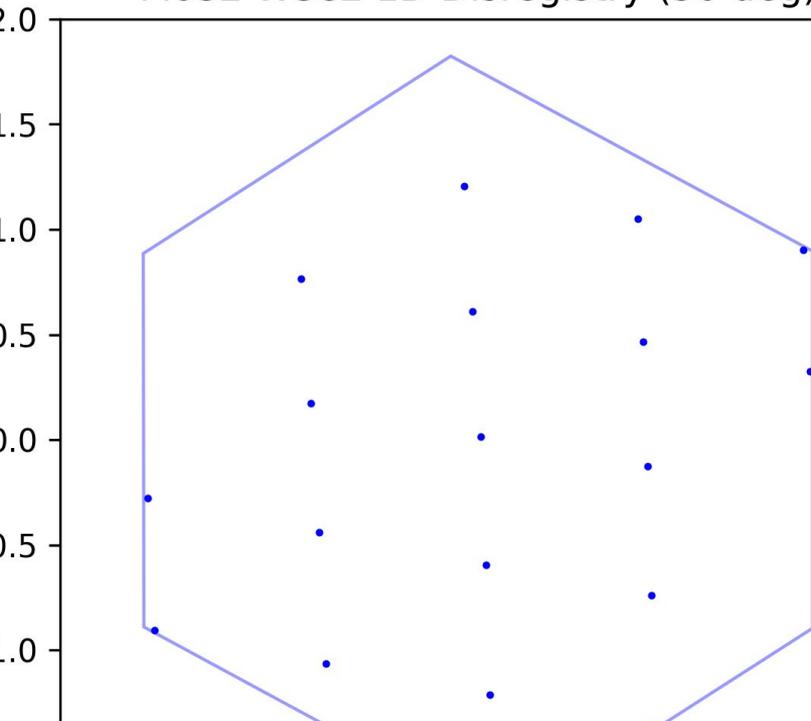
50 deg



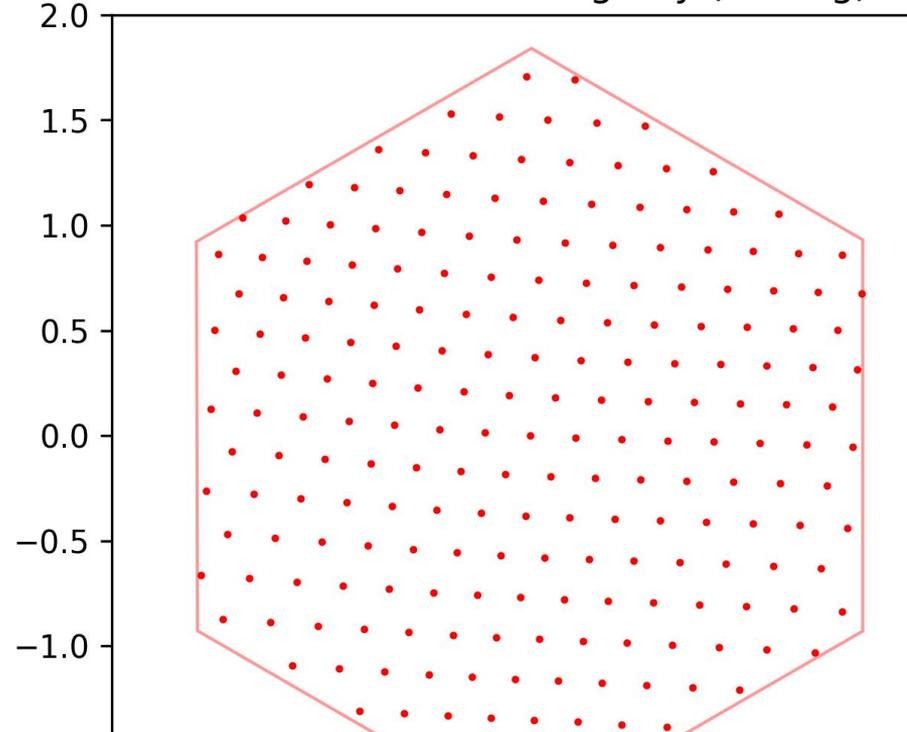
Actual Twist Angle: 50.0192155149
Total Atoms: 1317
W Atoms (Top Layer): 211
Mo Atoms (Bottom Layer): 228

Actual Twist Angle: 50.0192155149
Total Atoms: 14
W Atoms (Top Layer): 18
Mo Atoms (Bottom Layer): 20

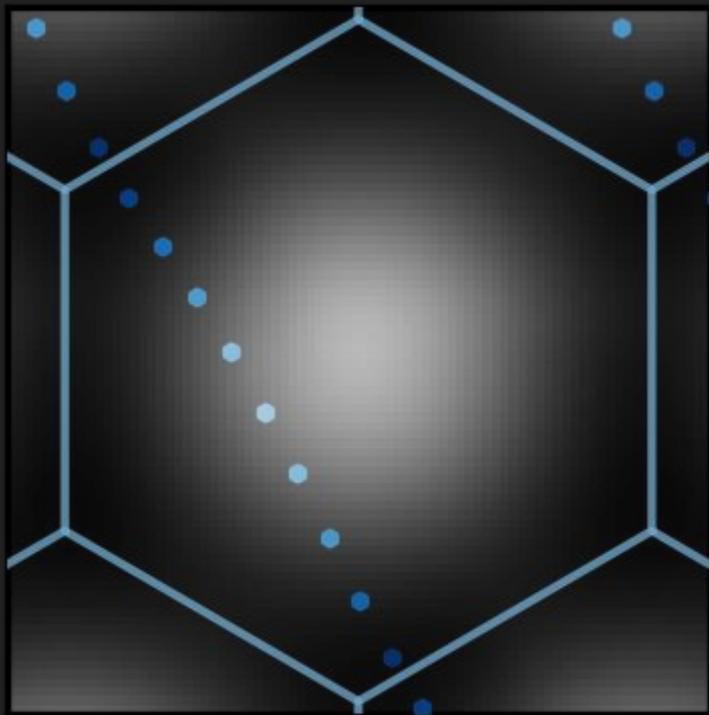
MoS2 WSe2 1D Disregistry (50 deg)



MoS2 WSe2 2D Disregistry (50 deg)



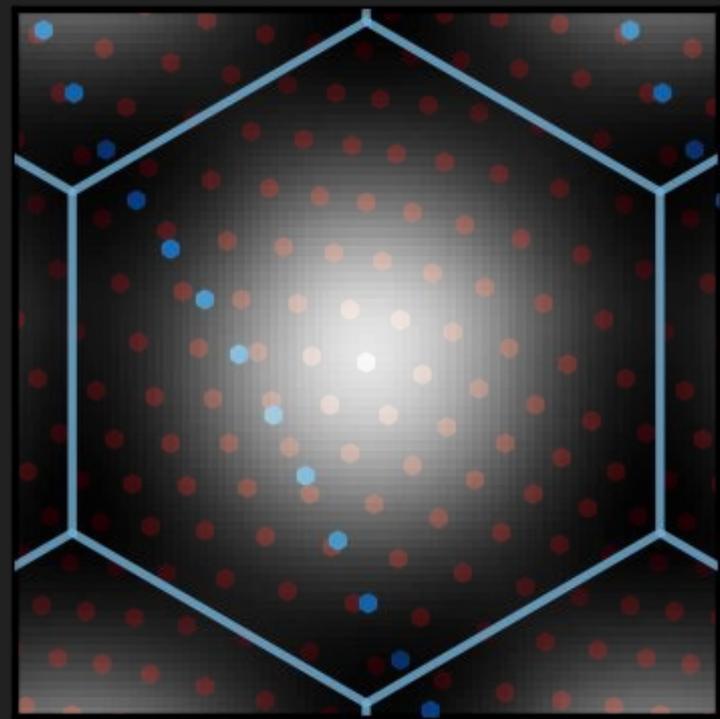
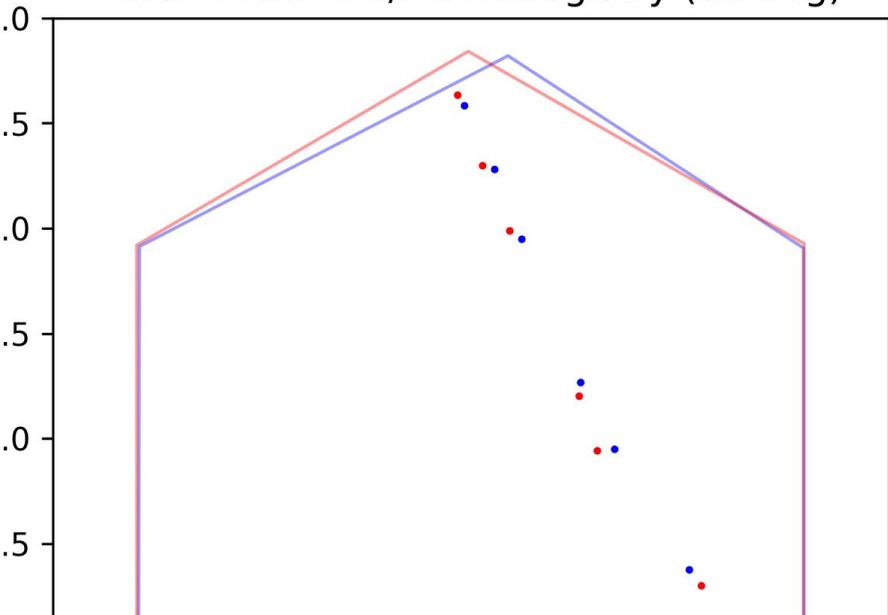
55 deg



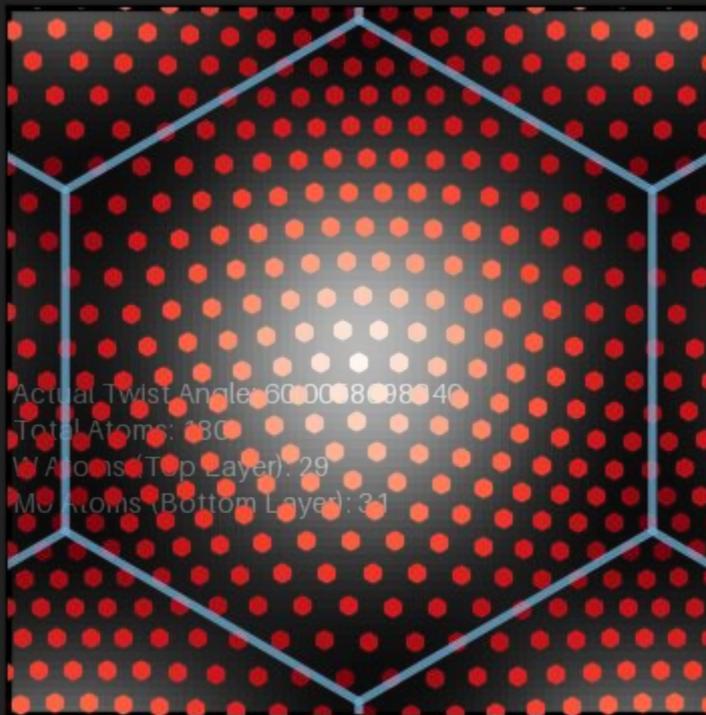
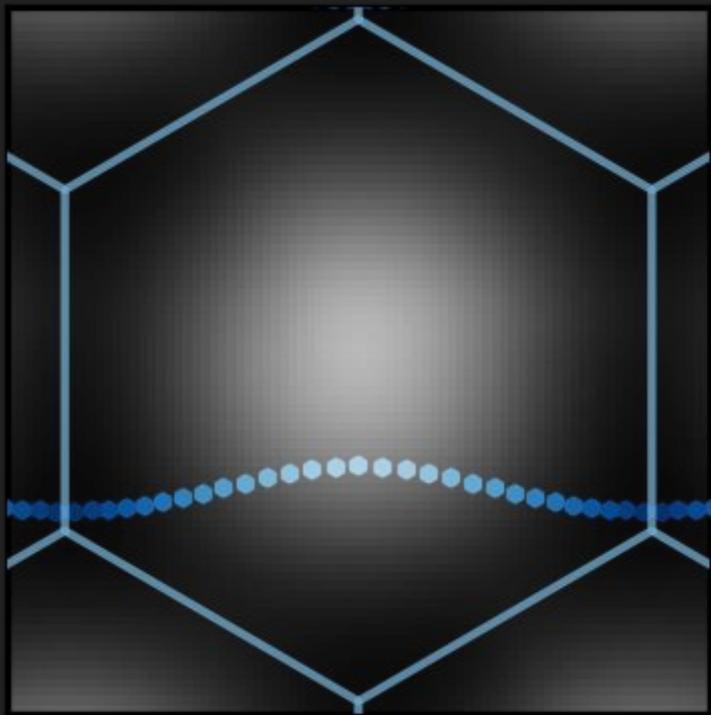
Actual Twist Angle: 55.0154074884
Total Atoms: 57
W Atoms (Top Layer): 9
Mo Atoms (Bottom Layer): 10

Actual Twist Angle: 55.0154074884
Total Atoms: 642
W Atoms (Top Layer): 103
Mo Atoms (Bottom Layer): 111

MoS2 WSe2 1D/2D Disregistry (55 deg)

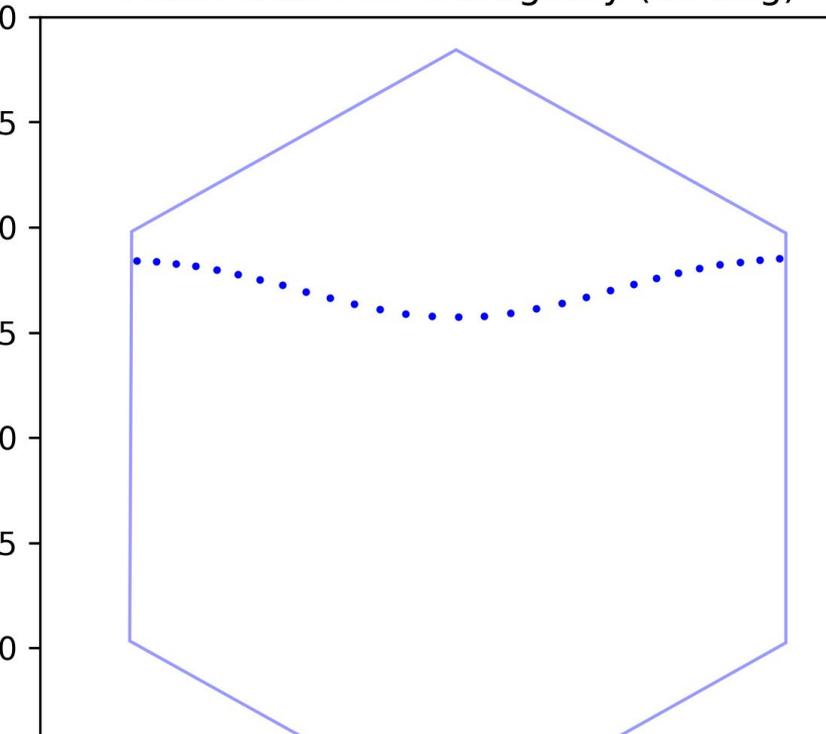


60 deg



Actual Twist Angle: 59.9772219942
Total Atoms: 1536
W Atoms (Top Layer): 240
Mo Atoms (Bottom Layer): 272

MoS2 WSe2 1D Disregistry (60 deg)



MoS2 WSe2 2D Disregistry (60 deg)

