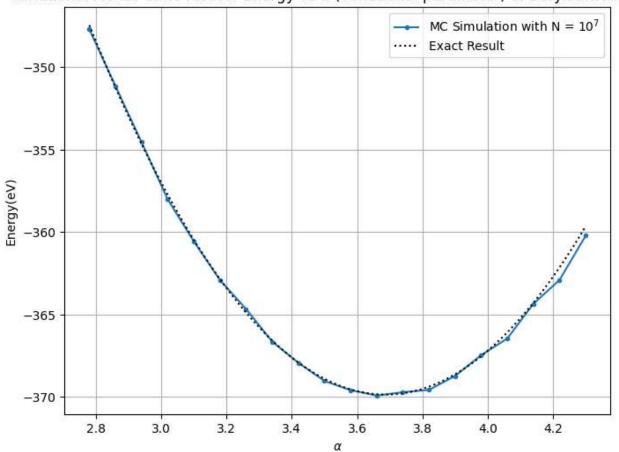
Beryllium VMC

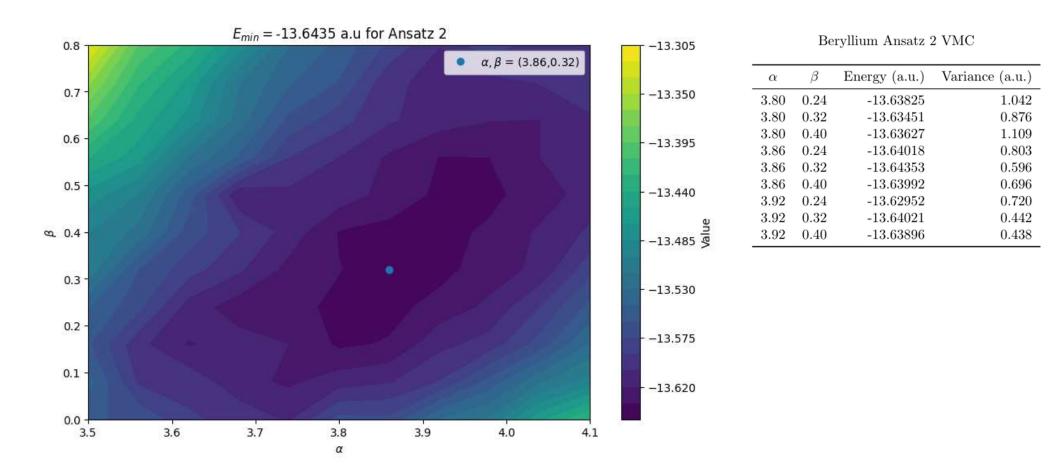
Variational Monte Carlo Plot for Energy vs α (variational parameter) of Beryllium Ansatz 1



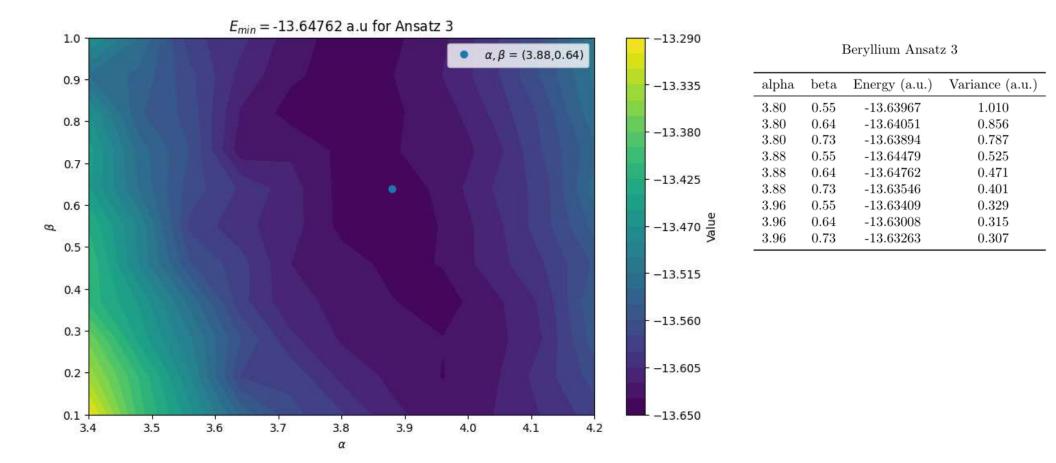
Beryllium Ansatz 1 VMC

alpha	Energy(a.u)	Energy(eV)	Variance(a.u)
2.78	-12.78	-347.71	19.45
2.86	-12.91	-351.15	19.41
2.94	-13.03	-354.55	19.32
3.02	-13.16	-358.02	16.30
3.10	-13.26	-360.57	14.75
3.18	-13.34	-362.91	11.54
3.26	-13.41	-364.67	9.87
3.34	-13.48	-366.64	8.98
3.42	-13.53	-367.93	8.60
3.50	-13.57	-369.03	6.18
3.58	-13.59	-369.59	4.95
3.66	-13.60	-369.91	5.16
3.74	-13.59	-369.71	3.71
3.82	-13.59	-369.57	3.58
3.90	-13.56	-368.72	3.37
3.98	-13.51	-367.47	4.50
4.06	-13.47	-366.45	4.67
4.14	-13.40	-364.35	6.39
4.22	-13.34	-362.91	8.05
4.30	-13.24	-360.22	10.25

Average R12 for Ansatz 1 = 0.5968 bohr



Average R12 for Ansatz 2 = 0.6136bohr



Average R12 for Ansatz 3 = 0.6037bohr