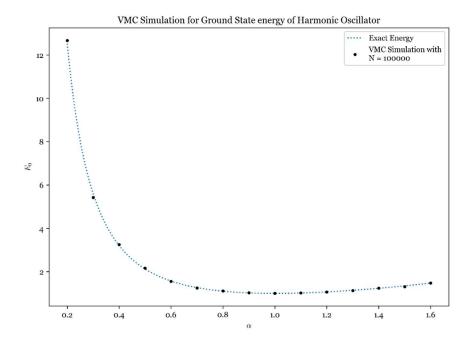
## Plots and Data for Variational Monte Carlo on Harmonic Oscillator and Hydrogen Atom



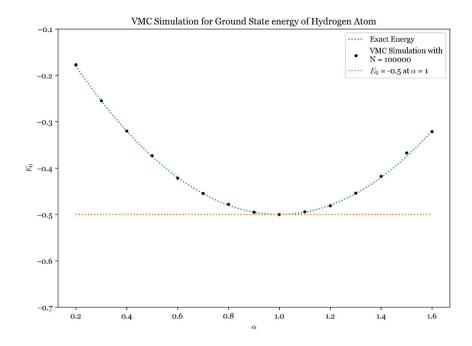


Table 1: VMC Data for Harmonic Oscillator

α	Mean Energy(H)	$Variance(\sigma^2)$
0.20	12.6682	325.0595
0.30	5.4217	54.2352
0.40	3.2513	19.8328
0.50	2.1693	7.6053
0.60	1.5505	2.8090
0.70	1.2530	1.2075
0.80	1.1138	0.4540
0.90	1.0254	0.0947
1.00	1.0000	0.0000
1.10	1.0206	0.0702
1.20	1.0667	0.2785
1.30	1.1269	0.6245
1.40	1.2448	1.0149
1.50	1.3118	1.6763
1.60	1.4789	2.2766

Table 2: VMC Data for Hydrogen Atom

$\alpha$	Mean Energy(H)	$Variance(\sigma^2)$
0.20	-0.1770	0.0214
0.30	-0.2548	0.0390
0.40	-0.3199	0.0553
0.50	-0.3733	0.0613
0.60	-0.4214	0.0599
0.70	-0.4544	0.0397
0.80	-0.4781	0.0231
0.90	-0.4949	0.0073
1.00	-0.5000	0.0000
1.10	-0.4942	0.0119
1.20	-0.4810	0.0640
1.30	-0.4541	0.1371
1.40	-0.4176	0.3505
1.50	-0.3672	0.5220
1.60	-0.3212	0.8934