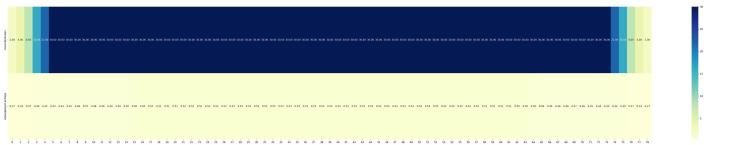
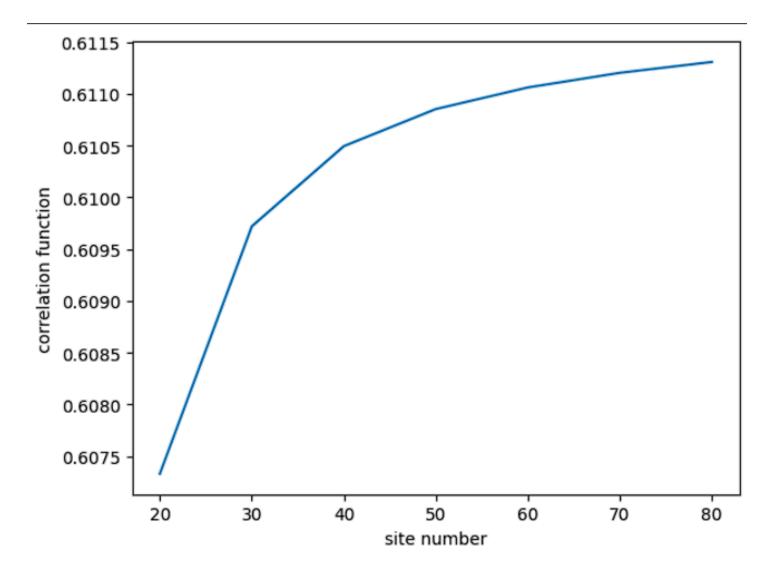
Github repository:- https://github.com/shikharkyadesultory/MB-Localization-TLFIM-

1. iTEBD Transverse Field ising model for dt=[0.1, 0.01, 0.001, 1.e-5, 1.e-6] for site length L=80 bond dimension max(chi) = 30:-

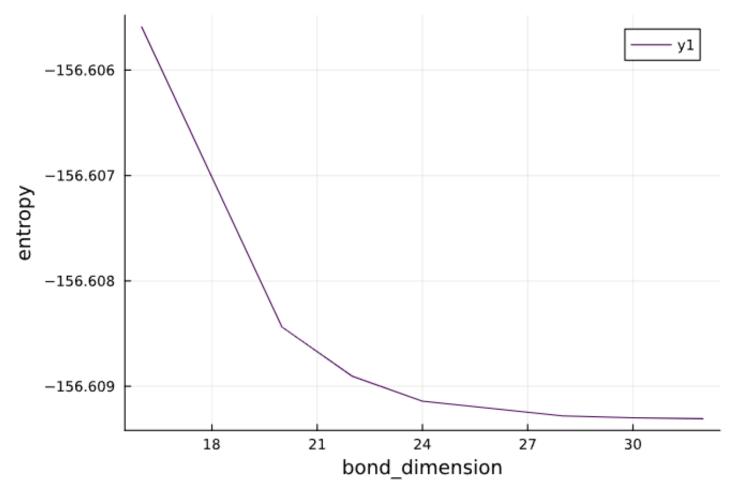


2. Correltation Function vs Site number:-

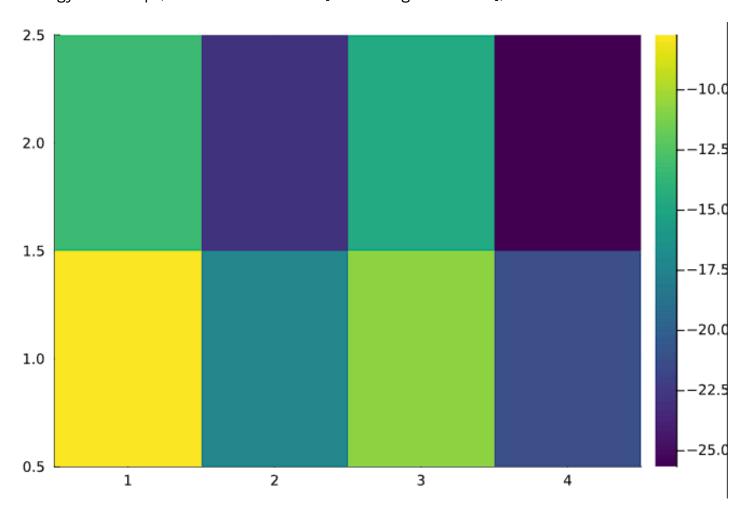


3.DMRG result(Entanglement Entropy vs Bond dimension):-

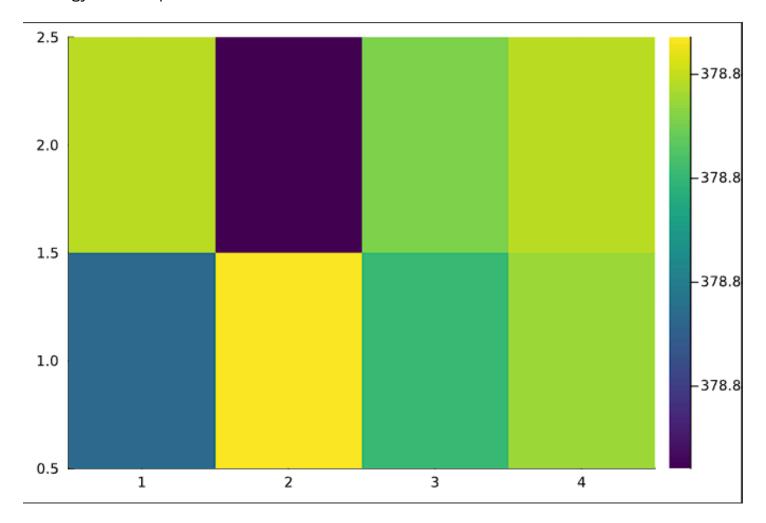
(random tensor MPS || bond dimensions (16,20,22,24,28,30,32)



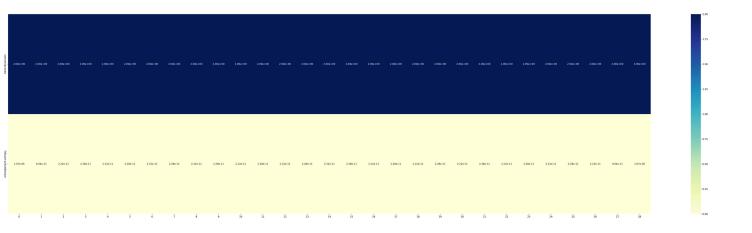
4.Energy Heat-Map (Random tensor MPS [Exact Diagonalization])



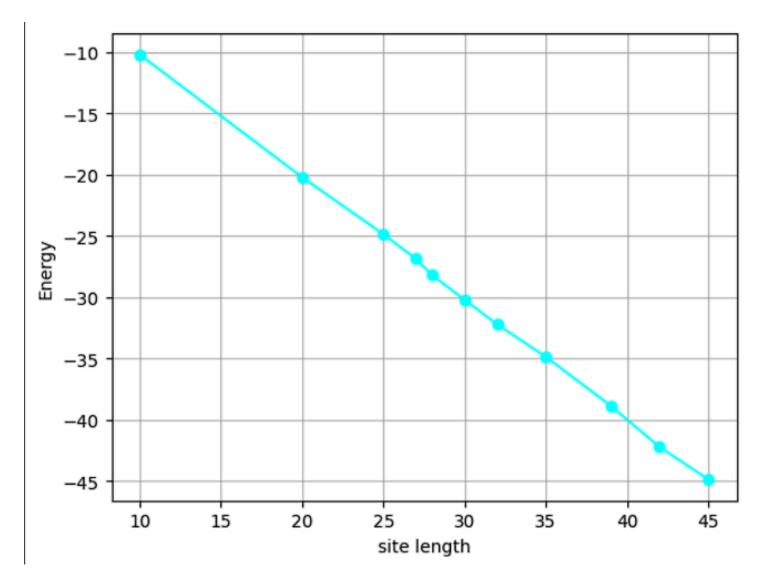
5.Energy Heat-Map (Random tensor MPS[finite DMRG])



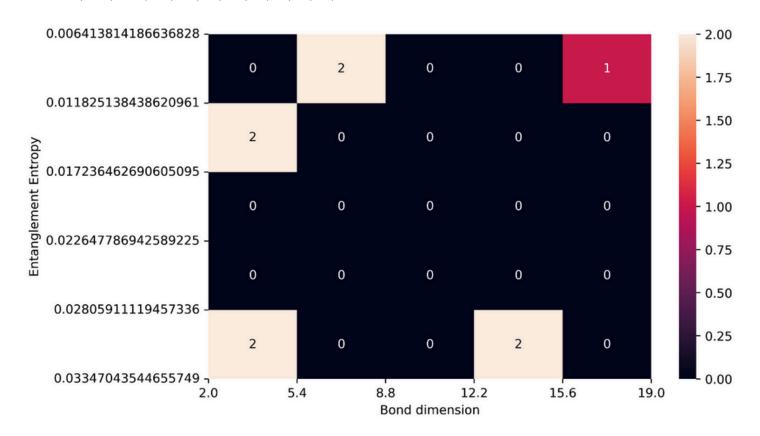
6.iTEBD Suzuki-Trotter Decomposition [Entanglement Entropy vs Bond dimension]



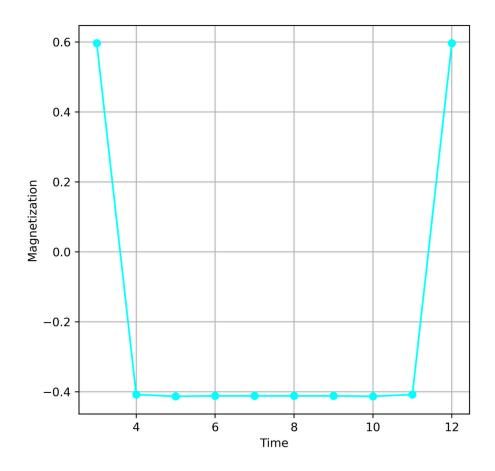
7. iTEBD (L=10,15,20,25,28,32,36,38,42,45,40) [Energy vs site Length]



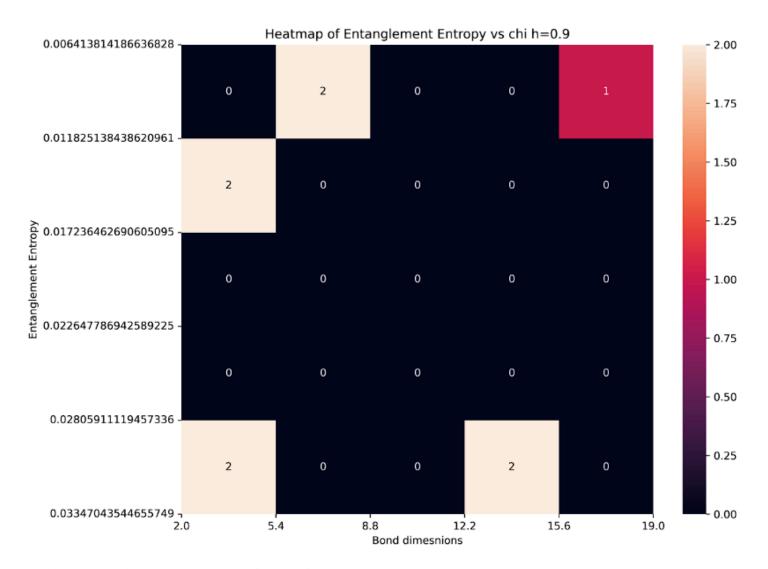
8.Transverse and Longitudinal Field Ising model [iTEBD] (L=10,h=0.9)



9.Magnetization for TLFI-Model:-

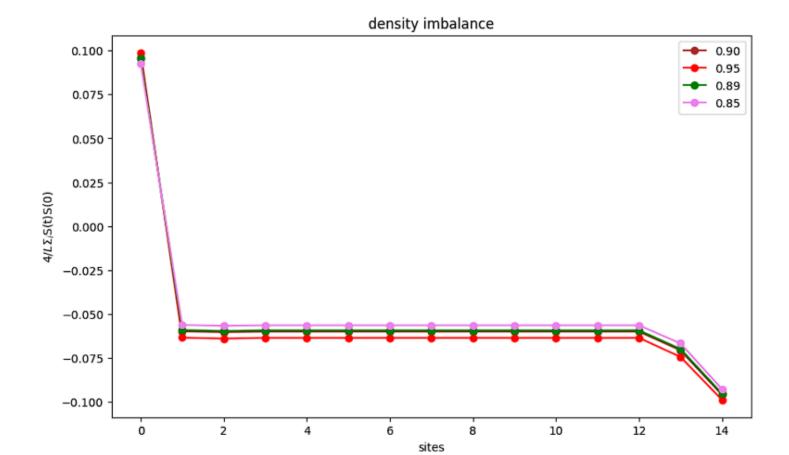


10.Driven Case [iTEBD] (h=0.9 , L=15, dt=T/2)

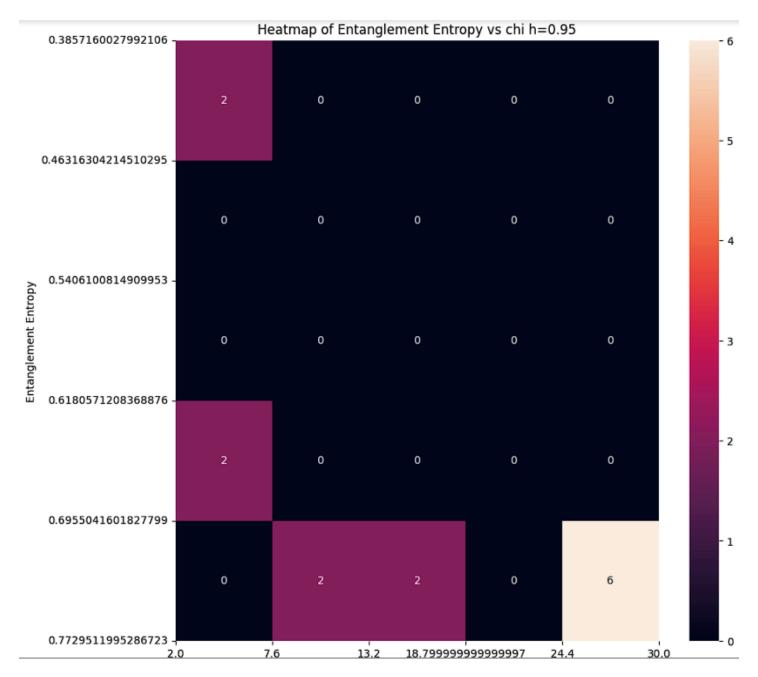


11.Alternate driving sequence [iTEBD] :-

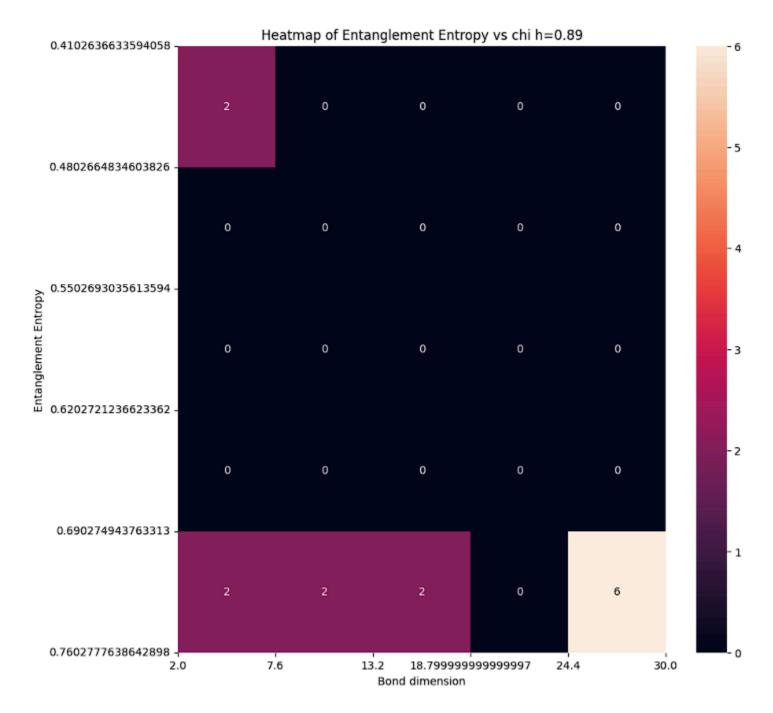
1.) Density Imbalance (h=0.90, h=0.95, h= 0.89, h=0.85):-



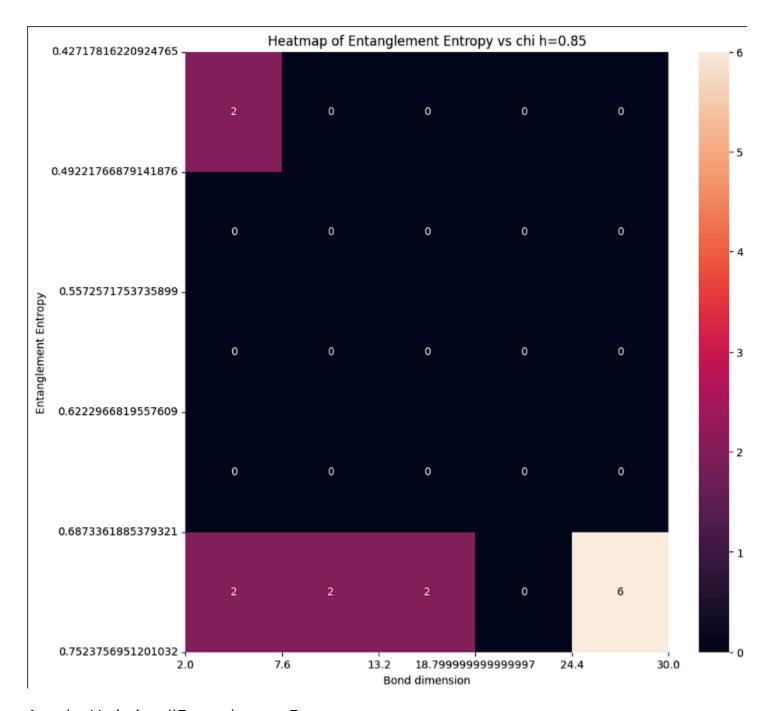
2.Entanglement Entropy (dt= T/4 , chi_max=30 , h=0.95)



3.Entanglement Entropy (dt= T/4 , chi max=30 , h=0.89):-

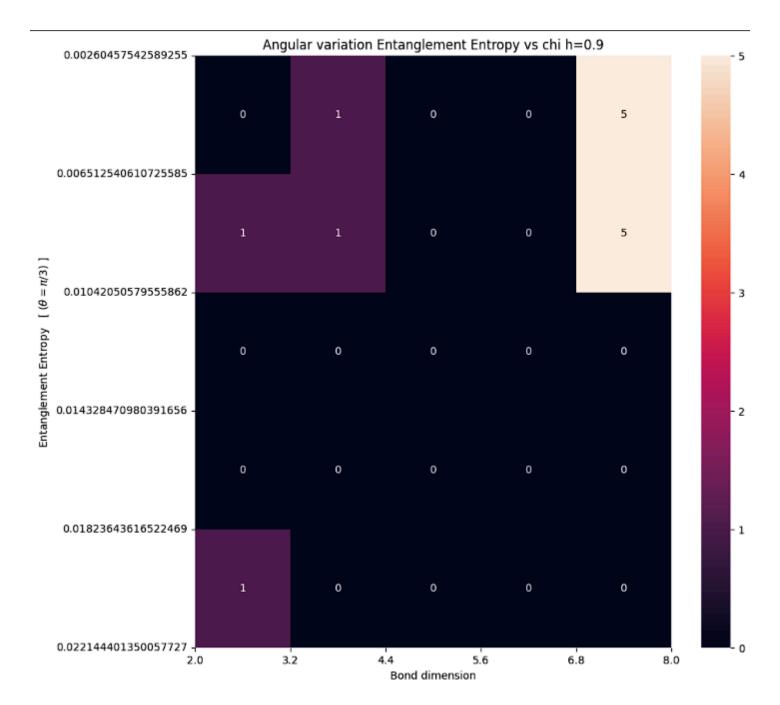


4.Entanglement Entropy (dt= T/4, chi max=30, h=0.85):-



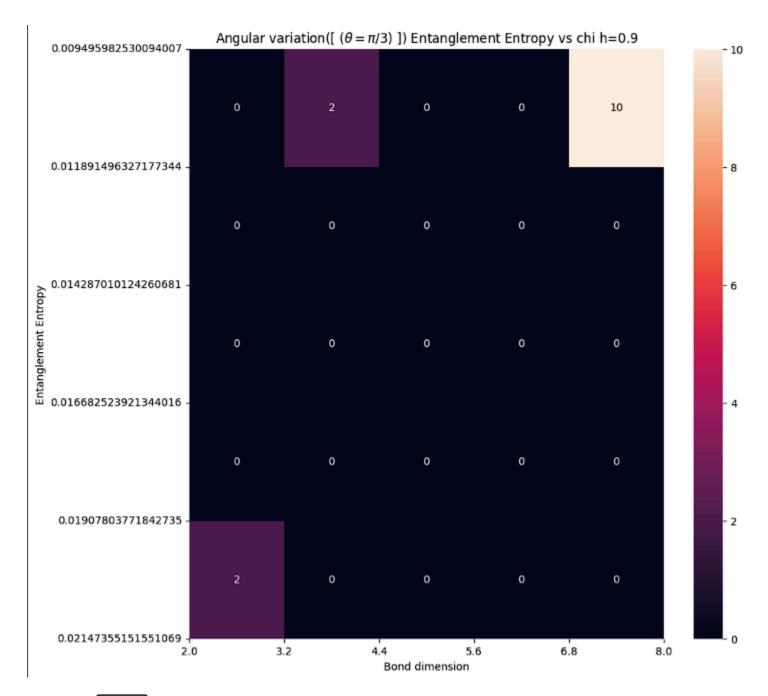
Angular Variation ||Entanglement Entropy

1. Undriven Case (h = 0.9, $\Theta = \pi/3$)

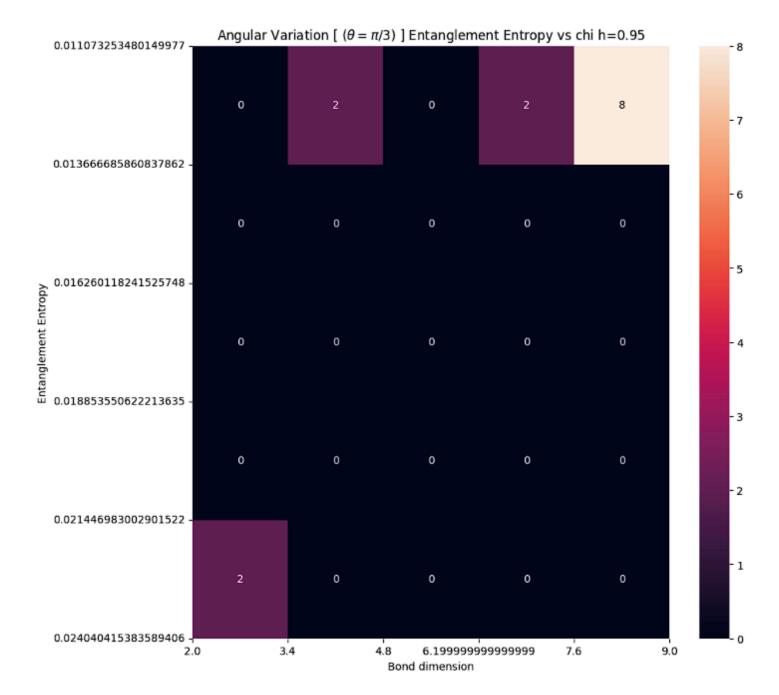


2.Driven Case: -

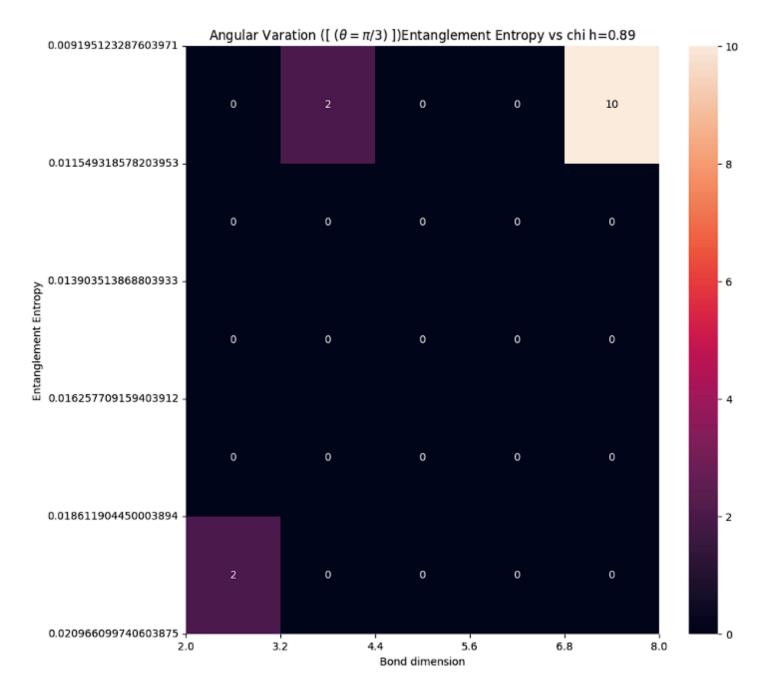
 $1.h = 0.9 \Theta = \pi/3$



 $2.h = 0.95 \Theta = \pi/3$



3.h=0.89 **Θ=π/3**



4.h=0.85 Θ=π/3

