## Initial and Final Energy Value for XX Model n = 5 $\Delta E = 2.02e - 02$ $\chi = 5$ $\chi = 6$ $\chi = 7$ $10^{-9}$ $10^{-7}$ $10^{-5}$ $10^{-3}$

Accuracy Before the Gradient Search

Accuracy After the Gradient Search  $^{10^{-1}}$   $^{10}$   $^{10}$   $^{10}$   $^{10}$ 

 $10^{-9}$