## range0-220

{SGD{ls:BT{lr:1,m1:0.0001,r:0.4,i:1000}} last\_f:0.384047798328,gen\_err:1.9549375384 {SGD{ls:AW{lr:0.0001,m1:0.0001,m2:0.9,r:0.95,i:1000}} last\_f:0.491688138439,gen\_err:1.69921331196 214.5 209.0 203.5 198.0 192.5 187.0 181.5 176.0 170.5 165.0 159.5 154.0 148.5 143.0 137.5 132.0 126.5 121.0 115.5 110.0 104.5 99.0 93.5 88.0 82.5 77.0 71.5 66.0 60.5 55.0 49.5 44.0 38.5 33.0 27.5 22.0 16.5 11.0 5000 5000 10000 15000 20000 25000 10000 15000 20000 30000 25000 30000

## range0-5

{SGD{ls:BT{lr:1,m1:0.0001,r:0.4,i:1000}} last\_f:0.384047798328,gen\_err:1.9549375384 {SGD{ls:AW{lr:0.0001,m1:0.0001,m2:0.9,r:0.95,i:1000}} last\_f:0.491688138439,gen\_err:1.69921331196 4.875 4.750 4.625 4.500 4.375 4.250 4.125 4.000 3.875 3.750 3.625 3.500 3.375 3.250 3.125 3.000 2.875 2.750 2.625 2.500 2.375 2.250 2.125 2.000 1.875 1.750 1.625 1.500 1.375 1.250 1.125 1.000 0.875 0.750 0.625 0.500 0.375 0.250 0.125 0.000 25000 5000 5000 10000 15000 20000 10000 15000 20000 25000 30000 30000

## range0-1.2

{SGD{ls:BT{lr:1,m1:0.0001,r:0.4,i:1000}} last\_f:0.384047798328,gen\_err:1.9549375384 {SGD{ls:AW{lr:0.0001,m1:0.0001,m2:0.9,r:0.95,i:1000}} last\_f:0.491688138439,gen\_err:1.69921331196 1.17 1.14 1.11 1.08 1.05 1.02 0.99 0.96 0.93 0.90 0.87 0.84 0.81 0.78 0.75 0.69 0.66 0.63 0.60 0.57 0.54 0.51 0.48 0.45 0.42 0.39 0.36 0.33 0.30 0.27 0.24 0.21 0.18 0.15 0.12 0.09 0.06 0.03 5000 10000 15000 20000 25000 5000 10000 15000 20000 25000 30000 30000