

Paper: Study on SOMA with non-binary PRT vector**a) Full numerical results**Rastrigin function

PRT1	PRT2	Mean.	Std. Dev.	Min	Max
0	0.05	3.70E+01	1.16E+01	1.95E+01	6.32E+01
0	0.1	3.77E+01	1.18E+01	2.22E+01	6.88E+01
0	0.15	4.28E+01	8.98E+00	2.39E+01	5.97E+01
0	0.2	3.71E+01	1.12E+01	1.90E+01	5.78E+01
0	0.25	3.63E+01	1.21E+01	1.55E+01	6.57E+01
0	0.3	3.99E+01	1.38E+01	2.22E+01	9.16E+01
0	0.35	3.64E+01	1.11E+01	1.76E+01	6.87E+01
0	0.4	4.16E+01	1.24E+01	1.40E+01	7.19E+01
0	0.45	4.75E+01	1.13E+01	2.60E+01	7.45E+01
0	0.5	4.94E+01	1.39E+01	2.62E+01	8.35E+01
0	0.55	4.65E+01	1.17E+01	2.70E+01	6.89E+01
0	0.6	4.59E+01	1.09E+01	2.96E+01	6.83E+01
0	0.65	4.84E+01	1.09E+01	2.56E+01	6.82E+01
0	0.7	5.05E+01	1.09E+01	3.14E+01	7.69E+01
0	0.75	4.50E+01	1.15E+01	1.81E+01	7.06E+01
0	0.8	4.63E+01	1.11E+01	3.06E+01	7.23E+01
0	0.85	4.34E+01	1.10E+01	2.33E+01	7.51E+01
0	0.9	4.50E+01	1.09E+01	1.51E+01	6.22E+01
0	0.95	1.10E+02	3.25E+01	5.52E+01	1.67E+02
0	1	2.69E+02	4.31E+01	1.96E+02	3.51E+02
0.05	0.1	3.72E+01	1.60E+01	1.89E+01	7.97E+01
0.05	0.15	3.96E+01	1.31E+01	1.51E+01	6.29E+01
0.05	0.2	3.47E+01	1.01E+01	1.80E+01	5.88E+01
0.05	0.25	3.73E+01	1.45E+01	1.80E+01	7.03E+01
0.05	0.3	3.37E+01	9.55E+00	1.67E+01	5.56E+01
0.05	0.35	4.01E+01	1.15E+01	1.79E+01	6.90E+01
0.05	0.4	3.84E+01	1.21E+01	1.78E+01	6.87E+01
0.05	0.45	4.29E+01	1.15E+01	2.46E+01	7.16E+01
0.05	0.5	4.34E+01	1.19E+01	2.21E+01	6.81E+01
0.05	0.55	4.44E+01	1.22E+01	2.08E+01	6.58E+01
0.05	0.6	4.08E+01	1.23E+01	1.91E+01	6.83E+01
0.05	0.65	4.08E+01	1.06E+01	2.13E+01	5.74E+01
0.05	0.7	4.14E+01	8.71E+00	2.22E+01	5.44E+01
0.05	0.75	3.31E+01	8.86E+00	1.54E+01	5.60E+01
0.05	0.8	2.95E+01	6.89E+00	1.85E+01	4.32E+01
0.05	0.85	3.06E+01	1.61E+01	8.26E+00	8.17E+01
0.05	0.9	6.09E+01	2.41E+01	1.56E+01	1.07E+02
0.05	0.95	1.22E+02	3.55E+01	5.40E+01	2.32E+02
0.05	1	8.92E+02	2.40E+02	5.83E+02	1.39E+03
0.1	0.15	3.46E+01	8.23E+00	1.60E+01	5.05E+01
0.1	0.2	3.36E+01	1.21E+01	1.40E+01	6.51E+01



0.1	0.25	3.49E+01	1.15E+01	1.61E+01	5.70E+01
0.1	0.3	3.93E+01	1.16E+01	1.70E+01	6.83E+01
0.1	0.35	3.68E+01	1.27E+01	1.67E+01	7.17E+01
0.1	0.4	3.76E+01	1.22E+01	1.46E+01	6.32E+01
0.1	0.45	3.84E+01	9.36E+00	2.09E+01	6.31E+01
0.1	0.5	4.16E+01	1.33E+01	1.91E+01	7.12E+01
0.1	0.55	3.81E+01	1.19E+01	1.59E+01	6.63E+01
0.1	0.6	3.95E+01	1.15E+01	1.93E+01	6.26E+01
0.1	0.65	3.41E+01	8.46E+00	1.88E+01	5.07E+01
0.1	0.7	3.02E+01	8.72E+00	1.67E+01	4.56E+01
0.1	0.75	2.23E+01	6.08E+00	8.88E+00	3.20E+01
0.1	0.8	1.91E+01	9.26E+00	8.50E+00	4.73E+01
0.1	0.85	3.29E+01	1.42E+01	1.49E+01	7.34E+01
0.1	0.9	1.11E+02	2.69E+01	4.97E+01	1.86E+02
0.1	0.95	5.23E+02	1.64E+02	1.46E+02	1.07E+03
0.1	1	2.74E+03	1.22E+03	2.02E+02	6.78E+03
0.15	0.2	3.84E+01	1.08E+01	1.41E+01	6.05E+01
0.15	0.25	3.68E+01	1.20E+01	1.75E+01	6.11E+01
0.15	0.3	3.97E+01	1.43E+01	1.55E+01	8.44E+01
0.15	0.35	3.99E+01	1.26E+01	1.50E+01	6.97E+01
0.15	0.4	3.86E+01	1.04E+01	2.26E+01	5.90E+01
0.15	0.45	3.51E+01	8.03E+00	2.06E+01	5.42E+01
0.15	0.5	3.17E+01	1.00E+01	1.29E+01	6.10E+01
0.15	0.55	3.70E+01	9.70E+00	1.92E+01	6.02E+01
0.15	0.6	2.97E+01	8.15E+00	1.14E+01	4.46E+01
0.15	0.65	2.58E+01	7.13E+00	1.46E+01	4.56E+01
0.15	0.7	2.03E+01	5.28E+00	1.10E+01	2.98E+01
0.15	0.75	1.30E+01	4.05E+00	7.91E+00	2.33E+01
0.15	0.8	3.24E+01	2.03E+01	6.90E+00	8.33E+01
0.15	0.85	8.65E+01	2.79E+01	3.10E+01	1.64E+02
0.15	0.9	4.12E+02	9.09E+01	2.07E+02	6.00E+02
0.15	0.95	2.06E+03	6.14E+02	1.23E+03	3.99E+03
0.15	1	8.47E+03	3.44E+03	2.04E+02	1.65E+04
0.2	0.25	3.18E+01	8.92E+00	1.77E+01	5.60E+01
0.2	0.3	3.24E+01	8.65E+00	1.70E+01	5.27E+01
0.2	0.35	3.35E+01	1.02E+01	1.83E+01	6.32E+01
0.2	0.4	3.37E+01	1.02E+01	1.97E+01	5.94E+01
0.2	0.45	3.22E+01	9.01E+00	1.68E+01	4.97E+01
0.2	0.5	3.42E+01	9.10E+00	1.98E+01	5.03E+01
0.2	0.55	2.69E+01	7.50E+00	1.28E+01	4.05E+01
0.2	0.6	2.35E+01	6.71E+00	1.16E+01	3.98E+01
0.2	0.65	1.68E+01	4.43E+00	9.09E+00	2.62E+01
0.2	0.7	9.88E+00	4.35E+00	4.26E+00	2.33E+01
0.2	0.75	1.99E+01	1.35E+01	7.25E+00	6.91E+01
0.2	0.8	8.55E+01	2.53E+01	4.56E+01	1.39E+02
0.2	0.85	3.50E+02	7.23E+01	2.52E+02	5.72E+02
0.2	0.9	1.29E+03	4.03E+02	7.04E+02	2.02E+03



0.2	0.95	5.76E+03	3.12E+03	1.65E+02	1.91E+04
0.2	1	2.22E+04	1.51E+04	1.55E+02	5.74E+04
0.25	0.3	3.34E+01	1.07E+01	2.03E+01	6.94E+01
0.25	0.35	3.24E+01	7.17E+00	1.60E+01	4.27E+01
0.25	0.4	2.99E+01	1.05E+01	1.65E+01	5.25E+01
0.25	0.45	2.88E+01	1.04E+01	1.26E+01	6.24E+01
0.25	0.5	2.54E+01	9.49E+00	1.03E+01	5.04E+01
0.25	0.55	2.12E+01	6.48E+00	9.93E+00	3.49E+01
0.25	0.6	1.53E+01	4.48E+00	7.62E+00	2.62E+01
0.25	0.65	9.21E+00	3.49E+00	3.08E+00	1.86E+01
0.25	0.7	1.22E+01	6.45E+00	4.40E+00	3.16E+01
0.25	0.75	7.17E+01	2.09E+01	2.65E+01	1.20E+02
0.25	0.8	2.94E+02	9.99E+01	1.67E+02	5.54E+02
0.25	0.85	1.09E+03	4.28E+02	1.46E+02	2.18E+03
0.25	0.9	4.82E+03	2.19E+03	2.11E+03	1.19E+04
0.25	0.95	1.96E+04	1.18E+04	6.93E+03	6.43E+04
0.25	1	7.93E+04	4.02E+04	1.78E+02	1.75E+05
0.3	0.35	2.74E+01	1.11E+01	1.28E+01	5.97E+01
0.3	0.4	2.51E+01	8.05E+00	1.44E+01	4.65E+01
0.3	0.45	2.38E+01	9.89E+00	1.11E+01	4.90E+01
0.3	0.5	1.67E+01	5.77E+00	6.88E+00	3.21E+01
0.3	0.55	1.49E+01	5.53E+00	5.50E+00	2.39E+01
0.3	0.6	1.02E+01	3.35E+00	5.37E+00	1.95E+01
0.3	0.65	1.07E+01	7.17E+00	3.48E+00	3.54E+01
0.3	0.7	6.79E+01	2.46E+01	1.95E+01	1.26E+02
0.3	0.75	2.11E+02	5.55E+01	1.27E+02	3.40E+02
0.3	0.8	7.35E+02	3.34E+02	1.46E+02	1.61E+03
0.3	0.85	3.81E+03	1.97E+03	2.08E+02	7.20E+03
0.3	0.9	1.93E+04	1.07E+04	1.90E+02	4.87E+04
0.3	0.95	6.28E+04	2.59E+04	2.76E+04	1.29E+05
0.3	1	2.12E+05	1.38E+05	1.89E+02	7.28E+05
0.35	0.4	2.28E+01	7.90E+00	9.58E+00	4.61E+01
0.35	0.45	1.65E+01	6.18E+00	6.77E+00	2.93E+01
0.35	0.5	1.43E+01	4.72E+00	4.09E+00	2.13E+01
0.35	0.55	1.06E+01	4.65E+00	4.32E+00	1.92E+01
0.35	0.6	8.84E+00	3.06E+00	4.94E+00	1.75E+01
0.35	0.65	4.41E+01	2.54E+01	1.19E+01	1.32E+02
0.35	0.7	1.95E+02	6.59E+01	9.64E+01	4.05E+02
0.35	0.75	6.34E+02	2.94E+02	1.32E+02	1.47E+03
0.35	0.8	3.12E+03	1.04E+03	1.34E+03	5.10E+03
0.35	0.85	1.45E+04	7.11E+03	3.61E+03	2.90E+04
0.35	0.9	6.02E+04	4.79E+04	1.75E+02	2.14E+05
0.35	0.95	2.09E+05	2.28E+05	1.60E+02	1.26E+06
0.35	1	5.34E+05	3.81E+05	1.74E+02	1.82E+06
0.4	0.45	1.23E+01	5.08E+00	4.37E+00	2.69E+01
0.4	0.5	8.90E+00	3.72E+00	3.83E+00	1.89E+01
0.4	0.55	7.43E+00	2.38E+00	2.17E+00	1.11E+01



0.4	0.6	3.22E+01	1.80E+01	9.64E+00	7.80E+01
0.4	0.65	1.60E+02	4.47E+01	8.35E+01	2.74E+02
0.4	0.7	5.70E+02	2.83E+02	1.56E+02	1.37E+03
0.4	0.75	2.43E+03	2.06E+03	1.55E+02	1.04E+04
0.4	0.8	1.15E+04	5.06E+03	4.22E+03	2.41E+04
0.4	0.85	4.45E+04	2.18E+04	1.54E+04	8.54E+04
0.4	0.9	1.87E+05	9.02E+04	9.35E+04	5.56E+05
0.4	0.95	5.04E+05	3.17E+05	1.57E+02	1.43E+06
0.4	1	1.53E+06	8.34E+05	2.00E+02	3.91E+06
0.45	0.5	7.72E+00	2.66E+00	2.00E+00	1.43E+01
0.45	0.55	2.81E+01	1.49E+01	8.78E+00	7.63E+01
0.45	0.6	1.41E+02	6.27E+01	3.94E+01	3.66E+02
0.45	0.65	4.00E+02	1.21E+02	1.35E+02	6.12E+02
0.45	0.7	2.12E+03	1.94E+03	1.46E+02	9.59E+03
0.45	0.75	1.00E+04	6.60E+03	2.04E+03	2.79E+04
0.45	0.8	5.61E+04	5.44E+04	1.80E+02	2.34E+05
0.45	0.85	1.58E+05	1.10E+05	1.46E+02	5.14E+05
0.45	0.9	5.01E+05	2.69E+05	2.24E+02	1.35E+06
0.45	0.95	1.63E+06	9.18E+05	2.20E+02	5.04E+06
0.45	1	4.16E+06	2.54E+06	1.60E+02	1.28E+07
0.5	0.55	1.14E+02	4.39E+01	5.61E+01	2.20E+02
0.5	0.6	3.67E+02	1.51E+02	1.29E+02	8.43E+02
0.5	0.65	1.28E+03	1.02E+03	1.69E+02	6.17E+03
0.5	0.7	8.97E+03	9.41E+03	1.68E+02	5.14E+04
0.5	0.75	3.73E+04	2.79E+04	1.46E+02	1.11E+05
0.5	0.8	1.40E+05	7.56E+04	1.88E+02	2.81E+05
0.5	0.85	5.13E+05	4.75E+05	1.49E+02	2.54E+06
0.5	0.9	1.56E+06	8.26E+05	2.09E+02	3.54E+06
0.5	0.95	4.88E+06	3.06E+06	2.15E+02	1.36E+07
0.5	1	1.29E+07	7.18E+06	2.25E+02	3.25E+07
0.55	0.6	8.94E+02	4.28E+02	1.90E+02	1.96E+03
0.55	0.65	6.62E+03	5.26E+03	1.53E+03	2.87E+04
0.55	0.7	3.51E+04	3.36E+04	1.57E+02	1.56E+05
0.55	0.75	1.31E+05	7.68E+04	1.63E+02	2.91E+05
0.55	0.8	4.50E+05	2.87E+05	1.96E+02	1.53E+06
0.55	0.85	2.00E+06	1.18E+06	3.66E+05	4.90E+06
0.55	0.9	4.10E+06	2.53E+06	1.90E+02	1.10E+07
0.55	0.95	1.53E+07	1.56E+07	2.12E+02	8.65E+07
0.55	1	3.33E+07	2.01E+07	1.65E+02	8.37E+07
0.6	0.65	3.34E+04	2.30E+04	7.87E+03	1.16E+05
0.6	0.7	1.10E+05	6.12E+04	2.17E+02	2.37E+05
0.6	0.75	4.66E+05	2.95E+05	1.61E+02	1.07E+06
0.6	0.8	1.47E+06	8.78E+05	2.01E+02	3.78E+06
0.6	0.85	4.77E+06	3.67E+06	1.59E+02	1.73E+07
0.6	0.9	1.28E+07	7.56E+06	3.54E+06	3.59E+07
0.6	0.95	4.37E+07	3.89E+07	2.06E+02	2.14E+08
0.6	1	1.03E+08	8.12E+07	1.87E+02	4.52E+08



0.65	0.7	3.53E+05	2.70E+05	5.12E+04	1.18E+06
0.65	0.75	1.28E+06	7.84E+05	2.00E+02	3.19E+06
0.65	0.8	3.89E+06	2.39E+06	2.14E+02	8.77E+06
0.65	0.85	1.38E+07	1.35E+07	1.62E+02	5.32E+07
0.65	0.9	3.44E+07	1.86E+07	2.15E+02	7.46E+07
0.65	0.95	1.21E+08	8.72E+07	1.68E+02	3.04E+08
0.65	1	2.78E+08	1.81E+08	8.81E+07	9.59E+08
0.7	0.75	3.59E+06	3.32E+06	1.70E+02	1.85E+07
0.7	0.8	1.18E+07	1.06E+07	1.66E+02	4.92E+07
0.7	0.85	3.73E+07	2.75E+07	1.30E+02	9.76E+07
0.7	0.9	1.07E+08	5.99E+07	1.74E+02	2.73E+08
0.7	0.95	3.07E+08	1.73E+08	1.98E+02	6.34E+08
0.7	1	7.96E+08	4.70E+08	1.95E+02	2.23E+09
0.75	0.8	2.62E+07	2.30E+07	2.00E+02	9.11E+07
0.75	0.85	1.04E+08	8.05E+07	1.90E+02	2.97E+08
0.75	0.9	2.89E+08	1.80E+08	2.11E+02	9.34E+08
0.75	0.95	7.28E+08	4.28E+08	2.03E+02	1.59E+09
0.75	1	2.02E+09	1.38E+09	1.85E+02	8.30E+09
0.8	0.85	1.96E+08	1.22E+08	1.71E+02	4.51E+08
0.8	0.9	6.46E+08	4.68E+08	2.00E+02	1.96E+09
0.8	0.95	2.34E+09	1.46E+09	2.07E+02	7.75E+09
0.8	1	4.65E+09	2.77E+09	2.07E+02	9.80E+09
0.85	0.9	1.17E+09	8.48E+08	1.83E+02	4.32E+09
0.85	0.95	3.75E+09	1.78E+09	2.15E+02	8.06E+09
0.85	1	1.22E+10	6.85E+09	1.90E+02	2.78E+10
0.9	0.95	9.39E+09	4.72E+09	2.15E+02	2.69E+10
0.9	1	2.63E+10	1.36E+10	1.93E+02	4.95E+10

Schwefel function

PRT1	PRT2	Mean	Std. Dev.	Min	Max
0	0.05	1.98E+06	5.85E+05	1.06E+06	3.12E+06
0	0.1	2.02E+06	5.88E+05	9.56E+05	3.20E+06
0	0.15	2.15E+06	5.32E+05	1.05E+06	3.01E+06
0	0.2	2.03E+06	6.57E+05	9.31E+05	3.59E+06
0	0.25	2.02E+06	5.82E+05	7.45E+05	3.20E+06
0	0.3	1.80E+06	5.45E+05	8.88E+05	3.20E+06
0	0.35	1.94E+06	4.89E+05	9.44E+05	2.66E+06
0	0.4	1.83E+06	5.15E+05	9.80E+05	2.90E+06
0	0.45	1.67E+06	4.57E+05	9.92E+05	2.50E+06
0	0.5	1.62E+06	4.28E+05	9.47E+05	2.34E+06
0	0.55	1.40E+06	3.59E+05	7.90E+05	2.17E+06
0	0.6	1.34E+06	3.12E+05	8.27E+05	1.87E+06
0	0.65	1.25E+06	2.44E+05	8.36E+05	1.98E+06
0	0.7	1.10E+06	1.95E+05	6.08E+05	1.47E+06
0	0.75	1.02E+06	2.50E+05	6.12E+05	1.56E+06
0	0.8	1.01E+06	3.05E+05	4.91E+05	1.92E+06
0	0.85	9.89E+05	2.38E+05	5.55E+05	1.49E+06
0	0.9	9.33E+05	2.08E+05	6.08E+05	1.38E+06
0	0.95	9.36E+05	2.03E+05	5.76E+05	1.39E+06
0	1	1.35E+06	3.17E+05	7.08E+05	1.93E+06
0.05	0.1	2.18E+06	5.76E+05	1.05E+06	3.34E+06
0.05	0.15	2.11E+06	4.98E+05	9.43E+05	2.95E+06
0.05	0.2	2.10E+06	5.09E+05	1.02E+06	3.25E+06
0.05	0.25	2.13E+06	4.41E+05	1.23E+06	2.95E+06
0.05	0.3	2.06E+06	6.79E+05	9.02E+05	3.12E+06
0.05	0.35	1.74E+06	5.44E+05	7.64E+05	2.59E+06
0.05	0.4	1.78E+06	4.24E+05	1.05E+06	2.48E+06
0.05	0.45	1.64E+06	3.60E+05	9.54E+05	2.31E+06
0.05	0.5	1.58E+06	3.22E+05	8.33E+05	2.18E+06
0.05	0.55	1.40E+06	3.06E+05	7.00E+05	2.10E+06
0.05	0.6	1.33E+06	3.07E+05	7.11E+05	2.08E+06
0.05	0.65	1.10E+06	1.43E+05	8.70E+05	1.33E+06
0.05	0.7	1.08E+06	1.64E+05	7.41E+05	1.43E+06
0.05	0.75	1.02E+06	2.14E+05	6.57E+05	1.64E+06
0.05	0.8	1.05E+06	1.71E+05	6.35E+05	1.44E+06
0.05	0.85	1.17E+06	1.70E+05	9.44E+05	1.79E+06
0.05	0.9	1.00E+06	2.15E+05	7.22E+05	1.45E+06
0.05	0.95	1.10E+06	2.49E+05	5.57E+05	1.77E+06
0.05	1	3.10E+06	2.23E+05	2.63E+06	3.55E+06
0.1	0.15	2.07E+06	6.05E+05	1.05E+06	3.25E+06
0.1	0.2	2.05E+06	4.94E+05	1.22E+06	3.17E+06
0.1	0.25	2.00E+06	4.65E+05	1.19E+06	2.95E+06
0.1	0.3	1.89E+06	5.14E+05	1.10E+06	2.95E+06
0.1	0.35	1.86E+06	4.74E+05	1.14E+06	2.81E+06



0.1	0.4	1.62E+06	3.37E+05	9.78E+05	2.31E+06
0.1	0.45	1.56E+06	3.17E+05	1.01E+06	2.23E+06
0.1	0.5	1.30E+06	2.76E+05	8.06E+05	1.96E+06
0.1	0.55	1.36E+06	2.56E+05	8.33E+05	1.81E+06
0.1	0.6	1.21E+06	2.44E+05	6.54E+05	1.68E+06
0.1	0.65	1.25E+06	1.96E+05	8.26E+05	1.62E+06
0.1	0.7	1.10E+06	1.62E+05	8.34E+05	1.49E+06
0.1	0.75	1.23E+06	1.90E+05	8.87E+05	1.55E+06
0.1	0.8	1.34E+06	1.90E+05	9.91E+05	1.90E+06
0.1	0.85	1.12E+06	1.70E+05	8.45E+05	1.54E+06
0.1	0.9	1.02E+06	2.31E+05	6.68E+05	1.71E+06
0.1	0.95	2.36E+06	3.24E+05	1.64E+06	3.04E+06
0.1	1	3.32E+06	3.46E+05	1.74E+06	3.75E+06
0.15	0.2	2.04E+06	4.10E+05	1.31E+06	2.77E+06
0.15	0.25	1.84E+06	4.43E+05	9.84E+05	2.58E+06
0.15	0.3	1.77E+06	3.89E+05	1.07E+06	2.68E+06
0.15	0.35	1.72E+06	3.47E+05	1.26E+06	2.43E+06
0.15	0.4	1.61E+06	3.50E+05	7.08E+05	2.25E+06
0.15	0.45	1.37E+06	3.12E+05	9.26E+05	2.12E+06
0.15	0.5	1.40E+06	2.93E+05	1.05E+06	2.33E+06
0.15	0.55	1.25E+06	2.25E+05	9.02E+05	1.92E+06
0.15	0.6	1.21E+06	1.75E+05	8.76E+05	1.53E+06
0.15	0.65	1.25E+06	2.57E+05	7.49E+05	1.90E+06
0.15	0.7	1.33E+06	1.69E+05	9.52E+05	1.66E+06
0.15	0.75	1.47E+06	1.76E+05	1.03E+06	1.76E+06
0.15	0.8	1.33E+06	2.48E+05	9.14E+05	1.82E+06
0.15	0.85	1.19E+06	2.55E+05	5.86E+05	1.67E+06
0.15	0.9	2.01E+06	3.40E+05	1.37E+06	2.71E+06
0.15	0.95	2.82E+06	3.28E+05	2.21E+06	3.52E+06
0.15	1	3.43E+06	1.47E+05	3.05E+06	3.69E+06
0.2	0.25	1.86E+06	3.27E+05	1.24E+06	2.42E+06
0.2	0.3	1.76E+06	4.71E+05	1.01E+06	2.71E+06
0.2	0.35	1.66E+06	3.52E+05	1.07E+06	2.42E+06
0.2	0.4	1.63E+06	3.20E+05	1.10E+06	2.58E+06
0.2	0.45	1.37E+06	2.59E+05	9.00E+05	2.00E+06
0.2	0.5	1.34E+06	2.45E+05	9.16E+05	1.77E+06
0.2	0.55	1.34E+06	2.34E+05	8.84E+05	1.82E+06
0.2	0.6	1.34E+06	1.84E+05	9.81E+05	1.74E+06
0.2	0.65	1.44E+06	2.11E+05	9.97E+05	1.75E+06
0.2	0.7	1.65E+06	1.74E+05	1.22E+06	2.01E+06
0.2	0.75	1.68E+06	1.77E+05	1.32E+06	1.99E+06
0.2	0.8	1.29E+06	2.28E+05	9.37E+05	1.99E+06
0.2	0.85	1.62E+06	2.95E+05	8.75E+05	2.16E+06
0.2	0.9	2.44E+06	3.50E+05	1.86E+06	3.24E+06
0.2	0.95	3.01E+06	3.26E+05	2.18E+06	3.55E+06
0.2	1	3.44E+06	1.12E+05	3.25E+06	3.72E+06
0.25	0.3	1.80E+06	2.96E+05	1.32E+06	2.42E+06



0.25	0.35	1.61E+06	2.63E+05	1.12E+06	2.29E+06
0.25	0.4	1.48E+06	2.51E+05	1.01E+06	2.02E+06
0.25	0.45	1.41E+06	2.54E+05	8.43E+05	2.00E+06
0.25	0.5	1.35E+06	2.02E+05	9.83E+05	1.73E+06
0.25	0.55	1.40E+06	2.00E+05	1.08E+06	1.81E+06
0.25	0.6	1.51E+06	2.17E+05	1.13E+06	1.96E+06
0.25	0.65	1.70E+06	1.46E+05	1.30E+06	1.96E+06
0.25	0.7	1.94E+06	1.64E+05	1.56E+06	2.29E+06
0.25	0.75	1.61E+06	2.70E+05	1.17E+06	2.24E+06
0.25	0.8	1.54E+06	3.77E+05	6.38E+05	2.29E+06
0.25	0.85	2.35E+06	3.00E+05	1.62E+06	2.81E+06
0.25	0.9	2.81E+06	2.62E+05	2.35E+06	3.25E+06
0.25	0.95	3.11E+06	2.72E+05	2.48E+06	3.54E+06
0.25	1	3.46E+06	1.08E+05	3.15E+06	3.71E+06
0.3	0.35	1.48E+06	2.28E+05	9.01E+05	1.97E+06
0.3	0.4	1.48E+06	2.26E+05	9.91E+05	2.05E+06
0.3	0.45	1.46E+06	2.34E+05	1.01E+06	2.07E+06
0.3	0.5	1.48E+06	2.14E+05	1.09E+06	1.95E+06
0.3	0.55	1.59E+06	2.31E+05	1.23E+06	2.07E+06
0.3	0.6	1.79E+06	1.95E+05	1.35E+06	2.12E+06
0.3	0.65	2.07E+06	1.96E+05	1.73E+06	2.40E+06
0.3	0.7	1.82E+06	2.29E+05	1.30E+06	2.31E+06
0.3	0.75	1.64E+06	2.80E+05	1.18E+06	2.25E+06
0.3	0.8	2.04E+06	2.43E+05	1.65E+06	2.69E+06
0.3	0.85	2.64E+06	2.77E+05	1.97E+06	3.05E+06
0.3	0.9	3.00E+06	2.15E+05	2.43E+06	3.33E+06
0.3	0.95	3.13E+06	2.28E+05	2.61E+06	3.49E+06
0.3	1	3.37E+06	2.94E+05	2.35E+06	3.66E+06
0.35	0.4	1.45E+06	1.99E+05	8.80E+05	1.90E+06
0.35	0.45	1.60E+06	1.87E+05	1.29E+06	1.93E+06
0.35	0.5	1.65E+06	2.24E+05	1.10E+06	2.10E+06
0.35	0.55	1.86E+06	1.91E+05	1.41E+06	2.33E+06
0.35	0.6	2.20E+06	1.76E+05	1.91E+06	2.52E+06
0.35	0.65	2.04E+06	2.21E+05	1.43E+06	2.47E+06
0.35	0.7	1.65E+06	3.47E+05	1.07E+06	2.36E+06
0.35	0.75	1.84E+06	3.24E+05	1.24E+06	2.53E+06
0.35	0.8	2.31E+06	3.02E+05	1.54E+06	2.94E+06
0.35	0.85	2.76E+06	3.10E+05	2.14E+06	3.36E+06
0.35	0.9	3.05E+06	2.32E+05	2.56E+06	3.45E+06
0.35	0.95	3.33E+06	1.62E+05	2.78E+06	3.60E+06
0.35	1	3.44E+06	2.56E+05	2.46E+06	3.77E+06
0.4	0.45	1.72E+06	1.70E+05	1.26E+06	2.11E+06
0.4	0.5	1.93E+06	1.69E+05	1.63E+06	2.38E+06
0.4	0.55	2.18E+06	1.46E+05	1.96E+06	2.48E+06
0.4	0.6	2.22E+06	2.16E+05	1.77E+06	2.62E+06
0.4	0.65	1.82E+06	3.67E+05	8.73E+05	2.32E+06
0.4	0.7	1.71E+06	3.33E+05	1.08E+06	2.42E+06



0.4	0.75	2.12E+06	2.39E+05	1.67E+06	2.64E+06
0.4	0.8	2.63E+06	3.45E+05	1.94E+06	3.24E+06
0.4	0.85	2.86E+06	2.16E+05	2.37E+06	3.32E+06
0.4	0.9	3.23E+06	2.35E+05	2.58E+06	3.64E+06
0.4	0.95	3.30E+06	1.95E+05	2.76E+06	3.60E+06
0.4	1	3.43E+06	2.59E+05	2.37E+06	3.72E+06
0.45	0.5	2.21E+06	1.98E+05	1.82E+06	2.74E+06
0.45	0.55	2.28E+06	1.67E+05	2.00E+06	2.65E+06
0.45	0.6	1.87E+06	2.62E+05	1.37E+06	2.35E+06
0.45	0.65	1.76E+06	3.57E+05	9.30E+05	2.40E+06
0.45	0.7	2.04E+06	2.81E+05	1.64E+06	2.70E+06
0.45	0.75	2.43E+06	4.14E+05	1.56E+06	3.12E+06
0.45	0.8	2.70E+06	3.03E+05	1.92E+06	3.31E+06
0.45	0.85	3.01E+06	2.61E+05	2.32E+06	3.55E+06
0.45	0.9	3.19E+06	3.18E+05	2.03E+06	3.63E+06
0.45	0.95	3.32E+06	2.35E+05	2.83E+06	3.66E+06
0.45	1	3.46E+06	9.59E+04	3.22E+06	3.61E+06
0.5	0.55	2.01E+06	2.43E+05	1.31E+06	2.40E+06
0.5	0.6	1.79E+06	2.93E+05	1.27E+06	2.49E+06
0.5	0.65	1.92E+06	3.53E+05	1.21E+06	2.64E+06
0.5	0.7	2.30E+06	3.36E+05	1.54E+06	2.99E+06
0.5	0.75	2.71E+06	3.27E+05	2.22E+06	3.54E+06
0.5	0.8	2.84E+06	2.31E+05	2.31E+06	3.16E+06
0.5	0.85	3.06E+06	2.37E+05	2.59E+06	3.47E+06
0.5	0.9	3.22E+06	2.29E+05	2.66E+06	3.55E+06
0.5	0.95	3.30E+06	2.21E+05	2.74E+06	3.69E+06
0.5	1	3.44E+06	2.37E+05	2.41E+06	3.62E+06
0.55	0.6	1.89E+06	2.86E+05	1.25E+06	2.59E+06
0.55	0.65	2.25E+06	3.13E+05	1.55E+06	3.00E+06
0.55	0.7	2.62E+06	3.09E+05	1.81E+06	3.24E+06
0.55	0.75	2.83E+06	2.61E+05	2.36E+06	3.32E+06
0.55	0.8	2.91E+06	2.33E+05	2.43E+06	3.41E+06
0.55	0.85	3.11E+06	2.46E+05	2.45E+06	3.52E+06
0.55	0.9	3.29E+06	1.75E+05	2.99E+06	3.61E+06
0.55	0.95	3.39E+06	1.31E+05	3.10E+06	3.68E+06
0.55	1	3.49E+06	1.39E+05	2.88E+06	3.67E+06
0.6	0.65	2.32E+06	3.38E+05	1.22E+06	2.80E+06
0.6	0.7	2.69E+06	2.82E+05	2.16E+06	3.20E+06
0.6	0.75	2.94E+06	2.48E+05	2.37E+06	3.47E+06
0.6	0.8	3.02E+06	2.19E+05	2.58E+06	3.45E+06
0.6	0.85	3.14E+06	2.54E+05	2.48E+06	3.60E+06
0.6	0.9	3.29E+06	1.64E+05	2.94E+06	3.55E+06
0.6	0.95	3.37E+06	1.86E+05	2.81E+06	3.74E+06
0.6	1	3.41E+06	3.44E+05	1.70E+06	3.74E+06
0.65	0.7	2.65E+06	2.66E+05	2.20E+06	3.05E+06
0.65	0.75	2.85E+06	2.43E+05	2.24E+06	3.25E+06
0.65	0.8	3.10E+06	2.35E+05	2.57E+06	3.59E+06



0.65	0.85	3.30E+06	2.33E+05	2.39E+06	3.63E+06
0.65	0.9	3.37E+06	1.97E+05	2.73E+06	3.75E+06
0.65	0.95	3.39E+06	1.90E+05	2.99E+06	3.67E+06
0.65	1	3.42E+06	2.88E+05	2.01E+06	3.69E+06
0.7	0.75	2.91E+06	2.68E+05	2.29E+06	3.37E+06
0.7	0.8	3.15E+06	2.18E+05	2.60E+06	3.58E+06
0.7	0.85	3.23E+06	2.23E+05	2.70E+06	3.71E+06
0.7	0.9	3.31E+06	2.03E+05	2.86E+06	3.77E+06
0.7	0.95	3.40E+06	1.72E+05	2.97E+06	3.73E+06
0.7	1	3.46E+06	1.11E+05	3.24E+06	3.73E+06
0.75	0.8	3.14E+06	1.88E+05	2.66E+06	3.43E+06
0.75	0.85	3.27E+06	1.93E+05	2.79E+06	3.59E+06
0.75	0.9	3.33E+06	1.82E+05	2.96E+06	3.70E+06
0.75	0.95	3.44E+06	1.67E+05	2.89E+06	3.66E+06
0.75	1	3.45E+06	2.19E+05	2.93E+06	3.72E+06
0.8	0.85	3.30E+06	1.42E+05	3.04E+06	3.54E+06
0.8	0.9	3.39E+06	2.08E+05	2.90E+06	3.66E+06
0.8	0.95	3.37E+06	2.67E+05	2.46E+06	3.66E+06
0.8	1	3.48E+06	2.07E+05	2.78E+06	3.76E+06
0.85	0.9	3.38E+06	1.65E+05	2.91E+06	3.64E+06
0.85	0.95	3.39E+06	1.82E+05	3.05E+06	3.76E+06
0.85	1	3.43E+06	3.04E+05	1.96E+06	3.71E+06
0.9	0.95	3.48E+06	1.81E+05	2.83E+06	3.78E+06
0.9	1	3.43E+06	2.79E+05	2.29E+06	3.70E+06



Rosenbrock function

PRT1	PRT2	Mean	Std. Dev.	Min	Max
0	0.05	1.01E+02	3.79E+01	4.28E+01	2.04E+02
0	0.1	1.04E+02	4.98E+01	1.82E+01	1.97E+02
0	0.15	1.11E+02	3.63E+01	5.28E+01	1.96E+02
0	0.2	8.87E+01	3.56E+01	3.64E+01	1.78E+02
0	0.25	1.05E+02	3.33E+01	4.28E+01	1.77E+02
0	0.3	8.80E+01	3.80E+01	2.07E+01	1.58E+02
0	0.35	1.22E+02	3.82E+01	1.80E+01	1.90E+02
0	0.4	1.48E+02	2.46E+01	1.03E+02	2.07E+02
0	0.45	1.59E+02	3.21E+01	1.04E+02	2.14E+02
0	0.5	1.65E+02	3.45E+01	8.74E+01	2.29E+02
0	0.55	1.63E+02	2.58E+01	1.24E+02	2.21E+02
0	0.6	1.69E+02	1.81E+01	1.21E+02	2.13E+02
0	0.65	1.59E+02	2.77E+01	1.00E+02	2.12E+02
0	0.7	1.61E+02	2.90E+01	1.08E+02	2.16E+02
0	0.75	1.71E+02	2.94E+01	1.11E+02	2.26E+02
0	0.8	1.65E+02	2.97E+01	1.13E+02	2.41E+02
0	0.85	1.61E+02	2.36E+01	1.22E+02	2.04E+02
0	0.9	1.62E+02	2.34E+01	1.12E+02	2.15E+02
0	0.95	1.41E+02	4.14E+01	1.30E+01	2.10E+02
0	1	2.75E+02	3.98E+01	1.79E+02	3.47E+02
0.05	0.1	8.13E+01	4.28E+01	1.26E+01	1.60E+02
0.05	0.15	9.36E+01	3.62E+01	1.44E+01	1.52E+02
0.05	0.2	8.93E+01	3.96E+01	2.99E+01	1.62E+02
0.05	0.25	8.63E+01	3.12E+01	2.63E+01	1.38E+02
0.05	0.3	1.23E+02	4.15E+01	5.80E+00	1.98E+02
0.05	0.35	1.55E+02	3.40E+01	8.25E+01	2.24E+02
0.05	0.4	1.50E+02	3.47E+01	8.37E+01	2.13E+02
0.05	0.45	1.49E+02	2.43E+01	1.11E+02	2.05E+02
0.05	0.5	1.59E+02	2.77E+01	9.44E+01	2.34E+02
0.05	0.55	1.55E+02	3.35E+01	9.32E+01	2.09E+02
0.05	0.6	1.56E+02	2.81E+01	1.03E+02	2.05E+02
0.05	0.65	1.58E+02	3.16E+01	8.40E+01	2.24E+02
0.05	0.7	1.54E+02	3.45E+01	9.61E+01	2.27E+02
0.05	0.75	1.66E+02	2.71E+01	8.75E+01	2.22E+02
0.05	0.8	1.40E+02	2.81E+01	8.48E+01	1.91E+02
0.05	0.85	1.47E+02	3.22E+01	6.74E+01	2.03E+02
0.05	0.9	1.16E+02	4.24E+01	4.25E+01	2.51E+02
0.05	0.95	1.39E+02	4.68E+01	4.87E+01	2.47E+02
0.05	1	3.74E+02	5.01E+01	2.26E+02	4.45E+02
0.1	0.15	9.56E+01	4.23E+01	3.25E+00	1.66E+02
0.1	0.2	9.67E+01	3.55E+01	3.85E+01	1.75E+02
0.1	0.25	1.01E+02	4.10E+01	9.29E+00	1.70E+02
0.1	0.3	1.28E+02	2.83E+01	7.77E+01	1.96E+02
0.1	0.35	1.46E+02	2.91E+01	8.92E+01	2.31E+02



0.1	0.4	1.52E+02	2.38E+01	1.09E+02	1.99E+02
0.1	0.45	1.59E+02	2.47E+01	1.10E+02	1.97E+02
0.1	0.5	1.58E+02	2.59E+01	1.10E+02	2.22E+02
0.1	0.55	1.59E+02	2.09E+01	1.10E+02	2.03E+02
0.1	0.6	1.55E+02	3.61E+01	7.82E+01	2.34E+02
0.1	0.65	1.60E+02	2.47E+01	1.09E+02	2.07E+02
0.1	0.7	1.58E+02	2.58E+01	1.10E+02	2.02E+02
0.1	0.75	1.56E+02	3.27E+01	7.17E+01	2.07E+02
0.1	0.8	1.30E+02	3.63E+01	4.38E+01	1.82E+02
0.1	0.85	8.09E+01	4.63E+01	8.38E+00	1.85E+02
0.1	0.9	6.66E+01	3.98E+01	4.86E+00	1.67E+02
0.1	0.95	2.36E+02	4.88E+01	1.39E+02	3.43E+02
0.1	1	4.26E+02	3.76E+01	3.40E+02	5.01E+02
0.15	0.2	1.12E+02	3.79E+01	4.97E+01	2.02E+02
0.15	0.25	1.29E+02	3.77E+01	5.21E+01	2.07E+02
0.15	0.3	1.39E+02	2.60E+01	7.81E+01	1.93E+02
0.15	0.35	1.43E+02	3.11E+01	6.80E+01	2.00E+02
0.15	0.4	1.57E+02	3.13E+01	1.07E+02	2.30E+02
0.15	0.45	1.56E+02	3.20E+01	8.79E+01	2.07E+02
0.15	0.5	1.51E+02	3.66E+01	7.90E+01	2.35E+02
0.15	0.55	1.47E+02	2.77E+01	6.64E+01	1.86E+02
0.15	0.6	1.50E+02	2.93E+01	8.50E+01	2.10E+02
0.15	0.65	1.44E+02	2.86E+01	9.23E+01	2.04E+02
0.15	0.7	1.44E+02	3.20E+01	7.84E+01	2.13E+02
0.15	0.75	1.36E+02	3.42E+01	2.55E+01	2.22E+02
0.15	0.8	8.41E+01	4.07E+01	1.44E+01	1.70E+02
0.15	0.85	6.64E+01	4.86E+01	7.86E+00	2.05E+02
0.15	0.9	1.88E+02	3.18E+01	1.24E+02	2.76E+02
0.15	0.95	3.63E+02	5.30E+01	1.91E+02	4.21E+02
0.15	1	4.52E+02	5.35E+01	2.62E+02	5.46E+02
0.2	0.25	1.33E+02	3.55E+01	6.60E+01	2.08E+02
0.2	0.3	1.35E+02	3.03E+01	8.60E+01	2.07E+02
0.2	0.35	1.47E+02	2.12E+01	9.70E+01	1.88E+02
0.2	0.4	1.40E+02	3.27E+01	9.61E+01	2.25E+02
0.2	0.45	1.53E+02	2.62E+01	6.68E+01	1.93E+02
0.2	0.5	1.54E+02	2.84E+01	1.03E+02	2.01E+02
0.2	0.55	1.56E+02	3.16E+01	1.02E+02	2.26E+02
0.2	0.6	1.51E+02	2.57E+01	1.07E+02	2.02E+02
0.2	0.65	1.50E+02	3.68E+01	6.86E+01	2.20E+02
0.2	0.7	1.22E+02	3.98E+01	5.85E+01	1.93E+02
0.2	0.75	8.00E+01	3.98E+01	1.98E+01	1.67E+02
0.2	0.8	6.97E+01	4.84E+01	5.14E+00	2.12E+02
0.2	0.85	1.76E+02	3.16E+01	8.60E+01	2.36E+02
0.2	0.9	3.19E+02	4.15E+01	2.18E+02	4.05E+02
0.2	0.95	4.12E+02	3.10E+01	3.33E+02	4.64E+02
0.2	1	4.56E+02	3.21E+01	3.79E+02	5.02E+02
0.25	0.3	1.41E+02	3.16E+01	8.24E+01	2.12E+02



0.25	0.35	1.47E+02	2.58E+01	1.07E+02	2.09E+02
0.25	0.4	1.47E+02	3.31E+01	7.35E+01	2.06E+02
0.25	0.45	1.49E+02	2.97E+01	7.72E+01	2.08E+02
0.25	0.5	1.54E+02	3.92E+01	8.41E+01	2.24E+02
0.25	0.55	1.48E+02	2.41E+01	9.87E+01	1.89E+02
0.25	0.6	1.38E+02	3.99E+01	4.61E+01	2.10E+02
0.25	0.65	1.17E+02	4.95E+01	2.04E+01	2.14E+02
0.25	0.7	7.77E+01	5.07E+01	1.30E+01	2.16E+02
0.25	0.75	4.73E+01	3.00E+01	4.87E+00	1.24E+02
0.25	0.8	1.58E+02	2.84E+01	8.85E+01	2.07E+02
0.25	0.85	2.62E+02	4.47E+01	1.70E+02	3.51E+02
0.25	0.9	3.83E+02	4.06E+01	3.00E+02	4.65E+02
0.25	0.95	4.22E+02	5.89E+01	2.08E+02	4.91E+02
0.25	1	4.65E+02	4.72E+01	2.39E+02	5.11E+02
0.3	0.35	1.24E+02	2.72E+01	5.94E+01	1.77E+02
0.3	0.4	1.44E+02	3.02E+01	7.69E+01	2.22E+02
0.3	0.45	1.41E+02	3.01E+01	7.88E+01	1.98E+02
0.3	0.5	1.42E+02	2.79E+01	8.98E+01	1.98E+02
0.3	0.55	1.29E+02	3.91E+01	6.04E+01	2.50E+02
0.3	0.6	1.08E+02	5.02E+01	1.60E+01	2.09E+02
0.3	0.65	6.59E+01	3.47E+01	1.72E+01	1.43E+02
0.3	0.7	4.61E+01	3.24E+01	4.94E+00	1.46E+02
0.3	0.75	1.61E+02	3.17E+01	1.06E+02	2.33E+02
0.3	0.8	2.45E+02	4.90E+01	1.67E+02	3.48E+02
0.3	0.85	3.36E+02	5.26E+01	1.94E+02	4.36E+02
0.3	0.9	3.93E+02	5.16E+01	2.54E+02	4.93E+02
0.3	0.95	4.38E+02	3.99E+01	2.80E+02	5.00E+02
0.3	1	4.62E+02	5.74E+01	2.49E+02	5.04E+02
0.35	0.4	1.30E+02	3.22E+01	6.08E+01	1.85E+02
0.35	0.45	1.29E+02	3.19E+01	8.14E+01	2.17E+02
0.35	0.5	1.15E+02	3.30E+01	2.60E+01	1.68E+02
0.35	0.55	1.04E+02	4.96E+01	1.43E+01	2.27E+02
0.35	0.6	6.64E+01	4.22E+01	5.15E+00	1.52E+02
0.35	0.65	5.50E+01	3.53E+01	1.75E+01	1.79E+02
0.35	0.7	1.55E+02	3.33E+01	9.69E+01	2.24E+02
0.35	0.75	2.19E+02	5.22E+01	1.17E+02	3.09E+02
0.35	0.8	3.09E+02	3.67E+01	2.22E+02	3.64E+02
0.35	0.85	3.66E+02	5.08E+01	2.14E+02	4.50E+02
0.35	0.9	3.98E+02	6.14E+01	1.73E+02	4.87E+02
0.35	0.95	4.41E+02	5.84E+01	2.00E+02	5.08E+02
0.35	1	4.70E+02	5.07E+01	2.40E+02	5.27E+02
0.4	0.45	1.13E+02	3.26E+01	2.92E+01	1.68E+02
0.4	0.5	8.22E+01	4.48E+01	5.67E+00	1.67E+02
0.4	0.55	6.57E+01	3.57E+01	1.47E+01	1.70E+02
0.4	0.6	5.25E+01	3.07E+01	1.64E+01	1.49E+02
0.4	0.65	1.41E+02	4.62E+01	3.66E+01	2.06E+02
0.4	0.7	1.92E+02	3.18E+01	1.07E+02	2.63E+02



0.4	0.75	3.01E+02	3.38E+01	2.53E+02	3.71E+02
0.4	0.8	3.42E+02	6.01E+01	1.88E+02	4.19E+02
0.4	0.85	3.97E+02	3.44E+01	3.24E+02	4.60E+02
0.4	0.9	4.06E+02	6.00E+01	1.97E+02	4.59E+02
0.4	0.95	4.43E+02	5.30E+01	2.14E+02	5.08E+02
0.4	1	4.69E+02	6.61E+01	2.02E+02	5.26E+02
0.45	0.5	5.47E+01	3.34E+01	5.20E+00	1.68E+02
0.45	0.55	5.38E+01	2.50E+01	1.71E+01	1.35E+02
0.45	0.6	1.30E+02	4.07E+01	7.16E+01	2.12E+02
0.45	0.65	1.86E+02	3.79E+01	1.21E+02	2.84E+02
0.45	0.7	2.60E+02	4.07E+01	1.49E+02	3.35E+02
0.45	0.75	3.53E+02	3.73E+01	2.76E+02	4.48E+02
0.45	0.8	3.70E+02	5.92E+01	2.20E+02	4.52E+02
0.45	0.85	4.07E+02	3.79E+01	2.74E+02	4.97E+02
0.45	0.9	4.34E+02	4.24E+01	2.48E+02	4.92E+02
0.45	0.95	4.53E+02	5.18E+01	2.25E+02	5.09E+02
0.45	1	4.85E+02	2.34E+01	4.48E+02	5.35E+02
0.5	0.55	1.11E+02	4.45E+01	2.33E+01	1.85E+02
0.5	0.6	1.70E+02	3.63E+01	1.15E+02	2.62E+02
0.5	0.65	2.43E+02	3.88E+01	1.60E+02	3.20E+02
0.5	0.7	3.25E+02	4.07E+01	2.26E+02	4.08E+02
0.5	0.75	3.67E+02	3.90E+01	2.80E+02	4.28E+02
0.5	0.8	3.97E+02	4.65E+01	2.33E+02	4.77E+02
0.5	0.85	4.03E+02	5.80E+01	1.52E+02	4.59E+02
0.5	0.9	4.23E+02	6.06E+01	2.22E+02	5.05E+02
0.5	0.95	4.66E+02	2.35E+01	4.14E+02	5.23E+02
0.5	1	4.81E+02	2.24E+01	4.32E+02	5.30E+02
0.55	0.6	2.40E+02	3.94E+01	1.60E+02	3.20E+02
0.55	0.65	3.11E+02	5.12E+01	2.24E+02	4.06E+02
0.55	0.7	3.44E+02	4.84E+01	2.15E+02	4.67E+02
0.55	0.75	3.72E+02	4.95E+01	2.23E+02	4.36E+02
0.55	0.8	3.98E+02	4.66E+01	2.29E+02	4.63E+02
0.55	0.85	4.14E+02	4.66E+01	2.35E+02	4.80E+02
0.55	0.9	4.34E+02	4.07E+01	2.49E+02	4.91E+02
0.55	0.95	4.33E+02	7.56E+01	1.81E+02	5.03E+02
0.55	1	4.81E+02	2.15E+01	4.39E+02	5.24E+02
0.6	0.65	3.30E+02	4.20E+01	2.00E+02	4.00E+02
0.6	0.7	3.68E+02	4.61E+01	1.89E+02	4.31E+02
0.6	0.75	3.97E+02	3.13E+01	3.42E+02	4.64E+02
0.6	0.8	3.81E+02	8.18E+01	1.94E+02	4.75E+02
0.6	0.85	4.07E+02	7.34E+01	1.74E+02	5.05E+02
0.6	0.9	4.22E+02	7.08E+01	2.09E+02	4.88E+02
0.6	0.95	4.67E+02	2.21E+01	4.07E+02	5.04E+02
0.6	1	4.62E+02	6.90E+01	2.11E+02	5.10E+02
0.65	0.7	3.82E+02	5.50E+01	1.60E+02	4.99E+02
0.65	0.75	3.87E+02	6.16E+01	2.10E+02	4.83E+02
0.65	0.8	4.08E+02	5.09E+01	2.14E+02	5.05E+02

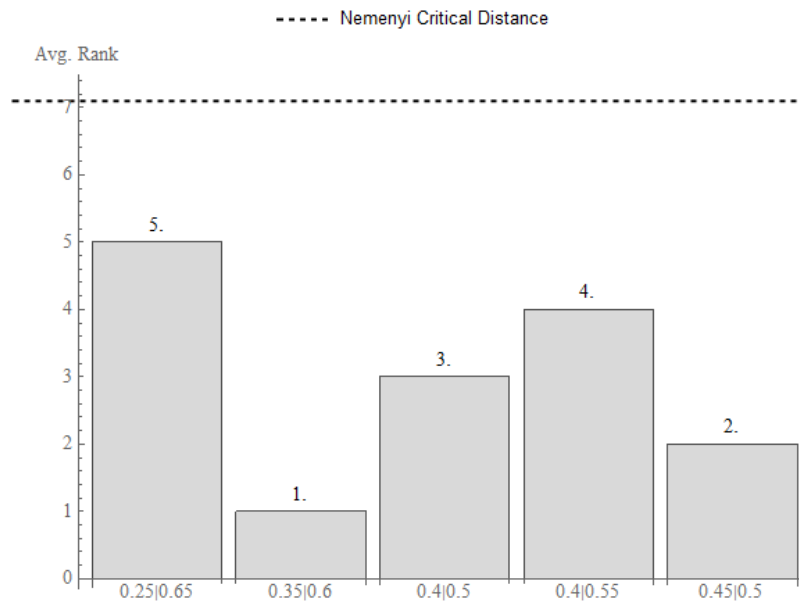


0.65	0.85	4.20E+02	4.75E+01	2.04E+02	4.77E+02
0.65	0.9	4.45E+02	1.85E+01	4.09E+02	4.87E+02
0.65	0.95	4.31E+02	8.84E+01	1.82E+02	5.04E+02
0.65	1	4.61E+02	7.46E+01	1.89E+02	5.18E+02
0.7	0.75	3.98E+02	5.30E+01	2.14E+02	4.72E+02
0.7	0.8	4.18E+02	4.37E+01	2.51E+02	5.07E+02
0.7	0.85	4.44E+02	2.73E+01	3.91E+02	5.26E+02
0.7	0.9	4.39E+02	6.69E+01	2.02E+02	4.88E+02
0.7	0.95	4.50E+02	6.71E+01	2.18E+02	5.31E+02
0.7	1	4.62E+02	6.99E+01	1.91E+02	5.11E+02
0.75	0.8	4.08E+02	6.29E+01	2.22E+02	4.73E+02
0.75	0.85	4.22E+02	7.39E+01	1.84E+02	4.97E+02
0.75	0.9	4.37E+02	7.32E+01	1.74E+02	5.13E+02
0.75	0.95	4.32E+02	9.55E+01	2.02E+02	5.05E+02
0.75	1	4.40E+02	9.60E+01	1.69E+02	5.33E+02
0.8	0.85	4.20E+02	6.25E+01	1.92E+02	4.82E+02
0.8	0.9	4.29E+02	7.25E+01	2.49E+02	4.97E+02
0.8	0.95	4.60E+02	5.38E+01	2.08E+02	5.20E+02
0.8	1	4.44E+02	9.75E+01	1.74E+02	5.26E+02
0.85	0.9	4.33E+02	7.34E+01	2.00E+02	5.08E+02
0.85	0.95	4.35E+02	8.39E+01	1.97E+02	5.08E+02
0.85	1	4.49E+02	8.65E+01	2.07E+02	5.10E+02
0.9	0.95	4.55E+02	6.12E+01	2.40E+02	5.39E+02
0.9	1	4.21E+02	1.02E+02	1.80E+02	5.12E+02

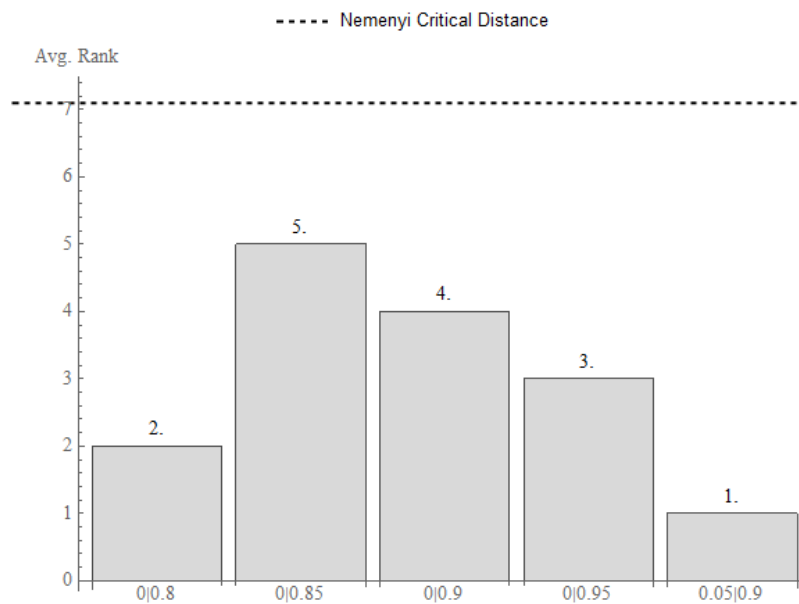


a) Friedman rank test results

Five best settings – Rastrigin function



Five best settings – Schwefel function





Five best settings – Rosenbrock function

