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For qoi 2, best emulator was n 30 Generated using 1500 samples, and basis of 3 degree Coef 0.999640 Mean Err 0.003754

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- 4.7426
- 4.6180
- 4.2224
- 4.5658
- 4.2341 4.2073
- 4.7577 4.3533
- 4.2859
- 4.4224
- 4.4325
- 4.4565

```
4.1647
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4.3699

4.3317

4.2940

4.0539

4.7946

4.3439

4.5768

4.5925

3.9930

4.5969

4.2321

4.3761

4.4046

4.4920

4.1692

4.3428

4.2665 4.4608

4.4013

For qoi 3, best emulator was n 30 Generated using 1500 samples, and basis of 3 degree Coef 0.999558 Mean Err 0.000044

0.0066

0.0085

0.0118

0.0085

0.0083

0.0101

0.0057

0.0086

0.0067

0.0107

0.0080

0.0069

0.0073

0.0114

0.0109

0.0069

0.0123

0.0093

0.0110

0.0102

0.0091

0.0070

0.0140

0.0108

0.0099

0.0089

- 0.0058
- 0.0112
- 0.0083
- 0.0089
- 0.0124
- 0.0082
- 0.0099
- 0.0112
- 0.0073
- 0.0099
- 0.0086
- 0.0128
- 0.0128
- 0.0088 0.0078
- 0.0063
- 0.0085
- 0.0073
- 0.0125
- 0.0081
- 0.0084
- 0.0117
- 0.0094
- 0.0111
- 0.0132
- 0.0130
- 0.0076
- 0.0114
- 0.0077
- 0.0082 0.0093
- 0.0058
- 0.0105
- 0.0140
- 0.0081 0.0124
- 0.0068
- 0.0087
- 0.0100
- 0.0127
- 0.0120
- 0.0104
- 0.0096
- 0.0067
- 0.0119
- 0.0063 0.0080
- 0.0101
- 0.0124
- 0.0088
- 0.0116
- 0.0118
- 0.0065 0.0116
- 0.0084

0.0126

0.0091

0.0079

0.0118

0.0087

0.0122

0.0114

0.0074

0.0092

0.0119

0.0103

. . . . . .

0.0070

0.0115

0.0121

0.0121

0.0090

0.0069

0.0086

0.0099

0.0092

0.0113

0.0079

0.0091

0.0108

0.0087

0.0122

0.0063

0.0084

0.0124

0.0094

0.0109

0.0063

0.0109

0.0102

0.0076

0.0091

0.0090

0.0050

0.0081

0.0095

0.0087

0.000

0.0069

0.0100

0.0093

0.0100

0.0130

0.0100

0.0104

0.0137

0.0124

0.0103

0.0045

0.0101

0.0091

0.0115

0.0051

0.0049

0.0083

0.0089

0.0091

0.0098

0.0077 0.0113

0.0067

0.0088

0.0083

0.0129

0.0076

0.0059

0.0092

0.0102

0.0091

0.0105

0.0069

0.0113

0.0076

0.0104

0.0135

0.0092

0.0121

0.0115 0.0096

0.0109

0.0094

0.0107

0.0095

0.0062

0.0075

0.0108

0.0083 0.0082

0.0121

0.0104

0.0107

0.0080

0.0074

0.0121

0.0082

0.0067

0.0105

0.0062 0.0091

0.0109

0.0111

0.0089

0.0094

0.0068

0.0122

0.0112

0.0092

0.0142

0.0093

0.0063

0.0070

0.0102 0.0097

0.0089

0.0058

0.0061

0.0103

0.0101

0.0090

0.0068

0.0071

0.0076

0.0122

0.0068

0.0082

0.0109

0.0080

0.0107

0.0097

0.0116

0.0078

0.0090

0.0132 0.0099

0.0109

0.0068 0.0098

0.0102

0.0133

0.0082

0.0071

0.0135

0.0072

0.0100

0.0104

0.0067 0.0075

0.0105

0.0048 0.0106

0.0108

0.0105

0.0117

0.0105

0.0088

0.0117

0.0083

0.0087

0.0068

0.0081

0.0084

0.0097

0.0106

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0.0056

0.0102

0.0100

0.0107

0.0115

0.0102

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0.0070

0.0084

0.0088

0.0040

0.0092

0.0107

0.0102 0.0104

0.0121

0.0086

0.0078

0.0077

0.0098

0.0071

0.0077

0.0049

0.0080

0.0094

0.0053

0.0085

0.0090

0.0077

0.0092

0.0103

0.0084

0.0111

0.0081

0.0071

0.0099

0.0085

0.0089

0.0060

- 0.0116
- 0.0112
- 0.0061
- 0.0079
- 0.0120
- 0.0068
- 0.0079
- 0.0051
- . . . . . .
- 0.0100
- 0.0045
- 0.0108
- 0.0096
- 0.0077
- 0.0096
- 0.0089
- 0.0099
- 0.0075
- 0.0111
- 0.0120
- 0.0067
- 0.0113
- 0.0094
- 0.0051
- 0.0112
- 0.0107
- 0.0111
- 0.0105
- 0.0125
- 0.0059
- 0.0094
- 0.0065 0.0083
- 0.0003
- 0.0081 0.0126
- 0.0085
- 0.0101
- 0.0121
- 0.0082
- 0.0108
- 0.0125
- 0.0089
- 0.0119
- 0.0083
- 0.0100
- 0.0094
- 0.0136
- 0.0098
- 0.0088
- 0.0148
- 0.0077 0.0112
- 0.0087
- 0.0083
- 0.0099
- 0.0059

- 0.0137
- 0.0096
- 0.0076
- 0.0116
- 0.0085
- 0.0084
- 0.0001
- 0.0113
- 0.0101
- 0.0089
- 0.0087
- 0.0084
- 0.0105
- 0.0083
- 0.0003
- 0.0094
- 0.0106
- 0.0075
- 0.0092
- 0.0059
- 0.0124
- 0.0097
- 0.0110
- 0.0092
- 0.0073
- 0.0089
- 0.0132
- 0.0081
- 0.0086
- 0.0139
- 0.0115
- 0.0086
- 0.0058
- 0.0073 0.0123
- 0.0092
- 0.0101
- 0.0087
- 0.0078
- 0.0098
- 0.0091
- 0.0105
- 0.0054
- 0.0107
- 0.0101
- 0.0081
- 0.0108
- 0.0080
- 0.0102
- 0.0134
- 0.0064
- 0.0070
- 0.0075 0.0107
- 0.0093

- 0.0088
- 0.0079
- 0.0103
- 0.0090
- 0.0122
- 0.0144
- 0.0115
- 0.0084
- 0.0115
- 0.0106
- 0.0074
- 0.0138
- 0.0104
- 0.0089
- 0.0078
- 0.0098
- 0.0069
- 0.0070
- 0.0054
- 0.0063
- 0.0104
- 0.0084
- 0.0070
- 0.0094
- 0.0097
- 0.0114
- 0.0072
- 0.0055
- 0.0097
- 0.0097
- 0.0118 0.0047
- 0.0077
- 0.0102
- 0.0080
- 0.0073 0.0100
- 0.0076
- 0.0137
- 0.0086
- 0.0137
- 0.0105
- 0.0125
- 0.0109
- 0.0078
- 0.0132
- 0.0114
- 0.0106
- 0.0093
- 0.0114
- 0.0105 0.0087
- 0.0088
- 0.0093
- 0.0129

- 0.0083
- 0.0050
- 0.0086
- 0.0087
- 0.0114
- 0.0136
- 0.0059
- 0.0081
- . . . . . .
- 0.0061
- 0.0105
- 0.0132
- 0.0072
- 0.0089
- 0.0077
- 0.0116
- 0.0130
- 0.0082
- 0.0125
- 0.0132
- 0.0091
- 0.0117
- 0.0117
- 0.0077
- 0.0103
- 0.0090
- 0.0000
- 0.0085
- 0.0133 0.0116
- 0.0100
- 0.0059
- 0.0081
- 0.0071
- 0.0107
- 0.0064
- 0.0091
- 0.0071
- 0.0098
- 0.0132
- 0.0141
- 0.0108
- 0.0095
- 0.0118
- 0.0146
- 0.0038
- 0.0127
- 0.0105
- 0.0079
- 0.0072
- 0.0103
- 0.0102
- 0.0111
- 0.0118
- 0.0074

- 0.0111
- 0.0092
- 0.0102
- 0.0126
- 0.0081
- 0.0102
- 0.0117
- 0.0102
- 0.0074
- 0.0085
- 0.0108
- 0.0114
- 0.0101
- 0.0096
- 0.0098
- 0.0073
- 0.0051
- 0.0090
- 0.0101
- 0.0078
- 0.0143
- 0.0086
- 0.0075
- 0.0079
- 0.0085
- 0.0081
- 0.0132
- 0.0044
- 0.0058
- 0.0104
- 0.0078 0.0099
- 0.0077 0.0126
- 0.0078
- 0.0120
- 0.0108
- 0.0113
- 0.0114
- 0.0122
- 0.0108 0.0058
- 0.0085
- 0.0099
- 0.0075
- 0.0040
- 0.0079
- 0.0129
- 0.0095
- 0.0086
- 0.0114
- 0.0081 0.0127
- 0.0115
- 0.0114

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0.0101

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0.0119

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0.0072 0.0088

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0.0115 0.0072

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0.0074

0.0095

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0.0090

0.0086

0.0101

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0.0106

0.0086

0.0082

0.0089

0.0106

0.0068

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0.0051

0.0095

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0.0106

0.0080 0.0082

0.0082

0.0093

0.0000

0.0131

0.0054

0.0080

0.0095

0.0125

0.0067

0.0160

0.0110

0.0083

0.0087

0.0106

0.0094

0.0112

0.0101

0.0125 0.0072

0.0086

0.0093

0.0068

0.0083

0.0065

0.0121

0.0050

0.0115

0.0103

0.0100

0.0100

0.0108 0.0081

0.0093

0.0089

0.0009

0.0100

0.0080

0.0074

0.0096

- 0.0114
- 0.0083
- 0.0111
- 0.0099
- 0.0110
- 0.0099
- 0.0117
- 0.0083
- 0.0082
- 0.0080
- 0.0088
- 0.0111
- 0.0131
- 0.0085
- 0.0101
- 0.0065
- 0.0109
- 0.0119 0.0075
- 0.0087
- 0.0075
- 0.0116
- 0.0132
- 0.0081
- 0.0114
- 0.0083
- 0.0076
- 0.0115
- 0.0099
- 0.0076
- 0.0096
- 0.0093
- 0.0108
- 0.0106
- 0.0102 0.0074
- 0.0080
- 0.0091
- 0.0110
- 0.0142
- 0.0122
- 0.0080
- 0.0079
- 0.0078
- 0.0075
- 0.0102
- 0.0108 0.0060
- 0.0089
- 0.0078
- 0.0104
- 0.0072
- 0.0140 0.0112
- 0.0116

0.0098

0.0107

0.0109

0.0117

0.0100

0.0090

0.0083

0.0111

0.0055

0.0106

0.0103

0.0087

0.0109 0.0076

0.0089

0.0062

0.0097

0.0107

0.0087

0.0081

0.0101

0.0107

0.0084

0.0059

0.0106

0.0062

0.0075

0.0054

0.0122

0.0087 0.0098

0.0121

0.0091 0.0099

0.0099

0.0103

0.0094

0.0086

0.0065

0.0066

0.0114

0.0104

0.0070

0.0106

0.0063

0.0080 0.0063

0.0126

0.0110 0.0085

0.0081

0.0118

0.0083

- 0.0059
- 0.0095
- 0.0096
- 0.0105
- 0.0078
- 0.0119
- 0.0115
- 0.0100
- 0.0080
- 0.0000
- 0.0053
- 0.0111
- 0.0124
- 0.0111
- 0.0115
- 0.0146
- 0.0092
- 0.0078
- 0.0096
- 0.0104
- 0.0093
- 0.0077
- 0.0085
- 0.0051
- 0.0098
- 0.0074
- 0.0117
- 0.0086
- 0.0106
- 0.0131
- 0.0090
- 0.0111
- 0.0085
- 0.0146
- 0.0091
- 0.0077
- 0.0117 0.0086
- 0.0086
- 0.0137
- 0.0106
- 0.0069
- 0.0115
- 0.0101
- 0.0096
- 0.0080
- 0.0087
- 0.0093
- 0.0093
- 0.0093
- 0.0117
- 0.0096
- 0.0089
- 0.0097

- 0.0120
- 0.0121
- 0.0103
- 0.0135
- 0.0100
- 0.0072
- 0.0084
- 0.0093
- 0.0033
- 0.0087
- 0.0126
- 0.0080
- 0.0095
- 0.0108
- 0.0065
- 0.0118
- 0.0092
- 0.0099
- 0.0093
- 0.0078
- 0.0109
- 0.0080
- 0.0077
- 0.0120
- 0.0102
- 0.0112
- 0.0069
- 0.0113
- 0.0118
- 0.0081
- 0.0093
- 0.0119
- 0.0108
- 0.0082
- 0.0100
- 0.0073 0.0084
- 0.0082
- 0.0104
- 0.0100
- 0.0087
- 0.0097
- 0.0133
- 0.0127
- 0.0117
- 0.0077
- 0.0065
- 0.0095
- 0.0078
- 0.0128
- 0.0091 0.0111
- 0.0103
- 0.0077
- 0.0105
- 0.0093

0.0077

0.0117

0.0086

0.0096

0.0083

0.0101

0.0086

0.0099

0.0127

0.0077

0.0077

0.0117

0.0077

0.0106

0.0072

0.0075

0.0099

0.0103

0.0072

0.0104

0.0130

0.0123

0.0079

0.0082

0.0091

0.0094

0.0100

0.0137

0.0123

0.0114

0.0105

0.0081

0.0073

0.0072

0.0097

0.0053

0.0094

0.0048

0.0095 0.0051

0.0090

0.0064

0.0090

0.0082

0.0085

0.0090

0.0061

0.0113

0.0084

0.0096

0.0060

```
0.0067
0.0045
0.0113
0.0095
0.0064
0.0078
```

0.0061 0.0113

0.0115 0.0062

0.0108 0.0081

0.0093

0.0069 0.0094

0.0108 0.0088 0.0079

0.0087 0.0126

0.0058 0.0104

0.0067

0.0135

0.0112 0.0107 0.0096

0.0070 0.0106

0.0093

0.0088

0.0074

For qoi 4, best emulator was n 30 Generated using 1500 samples, and basis of 3 degree Coef 0.999773 Mean Err 0.037516

44.1583 43.2471 38.3822 42.2877 46.5178 39.3643 44.6752

43.4226 46.8594

40.5683 46.0175 37.3698

- 45.8936
- 46.9662
- 41.2530
- 45.6655
- 43.6682
- 13.0002
- 38.8525
- 44.0139
- 41.6829
- 41.4486
- 11.1100
- 44.4761
- 41.6676
- 39.7743
- 44.7097
- 45.8663
- 41.9567 42.4328
- 44.4428
- 42.4224
- 45.3013
- 41.2188
- 41.0683
- 44.3887
- 43.0214
- 43.1190
- 44.7170
- 46.4283
- 47.2988
- 42.8025
- 39.1289
- 44.0358
- 45.1816
- 45.7842
- 42.8313
- 43.5858
- 42.3621
- 43.7414
- 44.3598
- 41.2440 44.9924
- 44.2546
- 38.7894
- 42.0415
- 45.3777
- 39.5476
- 39.9116
- 41.0098
- 44.0642
- 41.8930
- 37.7355
- 44.6306
- 41.2673
- 46.9548
- 42.2117
- 44.8524

- 41.9430
- 44.7927
- 40.4053
- 45.5666
- 48.6769
- 42.1754
- 42.4332
- 44.7149
- 41.1701
- 42.0882
- 40.2386
- 39.1463
- 38.3201
- 43.3368
- 42.3977
- 43.5117
- 45.2574
- 40.2387
- 43.0592
- 43.6551
- 42.1192
- 45.5726
- 44.9776
- 41.2752
- 47.2167
- 44.8757
- 44.2919
- 41.7190
- 43.0519
- 45.3340
- 45.8804
- 43.5613
- 39.3643
- 45.3951
- 47.1199
- 43.0999
- 40.3317
- 44.8038 41.8571
- 44.8303
- 46.2813
- 44.1892
- 45.8155
- 44.2027
- 47.3788
- 40.8597 42.3704
- 42.2317
- 40.9116
- 40.5013
- 45.8254
- 39.3725
- 43.7189 43.8589
- 43.9711

48.3405

40.1803

44.0436

46.2984

41.3609

46.3498

43.1498

45.0575

40.4409

10.1103

40.8571

43.1452

41.5077

43.2845

41.6733

47.8121 45.4772

42.1106

40.7591

49.7586

40.1153

46.1429

42.4880

46.9293

47.4472

44.7864

41.4095

47.6478

44.7097

41.9665 42.5479

45.0430

45.0450

43.1225

40.9975 40.7828

10.7020

42.5173

41.7565

43.6662 44.4754

41.0246

41.3123

42.3345

46.6226

42.3663

38.4716

43.4436

43.3881

36.2548 43.6205

44.1467

41.9870

44.6156

45.9189

42.8984

- 44.0268
- 44.6913
- 42.7198
- 47.2374
- 42.4276
- 44.6856
- 43.6188
- 46.8571
- 10.0071
- 46.4261
- 40.8006
- 42.9710
- 45.7810
- 45.2518
- 41.9940
- 45.3608
- 41.8452
- 39.1881
- 40.0347
- 44.6989
- 39.8633
- 42.8831
- 43.7368
- 40.2942
- 42.5759
- 47.6362
- 38.6809
- 30.0003
- 42.6430 42.3801
- 12.5001
- 45.1000
- 41.6653
- 43.5304 43.3762
- 43.3/02
- 46.4570 47.5115
- 44.6795
- 43.9482
- 39.6333
- 45.2038
- 43.4536
- 47.4023 45.9017
- 44.3902
- 43.6747
- 43.1233
- 48.3820
- 41.3631
- 42.0006 44.0780
- 39.6892
- 46.1910
- 42.1928
- 38.6032
- 40.8950
- 44.8690 43.0069

40.8851

43.8719

44.5463

39.8458

46.8110

45.3032

45.6361

44.5536

46.7521

42.2582

46.8376

42.2701

41.2392

44.3907

45.8593

44.6370

42.5316

43.0298

45.8983

44.2680

40.8556

42.9625

43.4273

48.9480 45.1950

42.2905

41.8406

43.6137

49.7866

40.5235

41.8249

39.7368

42.3113

45.1081

42.6138

44.7598

42.1948 45.2541

47.4425

47.1723

40.4254

41.8015

44.5481

37.4692

42.5042

42.4515

42.6637

44.8444

45.7602 44.3476

47.7793

47.1972

47.3300

44.8266

45.4415

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44.3364

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43.3310

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41.0984 40.8437

41.9121

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44.9024

42.4351

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44.6495

43.9327

40.6811

44.8969

44.5516

40.5311

45.7109

42.0726 44.8703

44.1628

43.6760

46.6681

45.9995

45.6075

45.5839

46.1476

47.7319

41.3862 38.2872

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44.0004

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44.7210

42.8290

40.6837

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- 39.5819 47.1852
- 43.6853
- 44.6053
- 46.7574
- 37.8999 44.4081
- 44.8933
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- 48.5571
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- 44.8774
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- 44.3447
- 41.5844 40.7337
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46.4041

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- 45.1307
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- 45.3804
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- 45.4711
- 46.9226
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- 45.7575
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- 42.1252
- 44.6058
- 46.6827 43.8676
- 42.1934
- 40.9273 42.6550
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- 47.2927
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45.7255

47.0272

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41.2726

38.1574

45.9184

40.7561 40.9085

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46.1812

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38.7103

46.1033

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43.7155 44.0932

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- 38.5601
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- 44.2209
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- 41.4827
- 43.8025
- 45.1312
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- 45.9028
- 39.5847
- 42.9249
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- 43.6419
- 46.5440
- 43.2701
- 44.9269
- 41.4643
- 42.3627
- 45.1458
- 42.5079
- 44.6930
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- 46.1783
- 43.4731
- 46.4849
- 44.7258
- 39.8919
- 44.9009
- 45.9259
- 40.3063
- 41.2086
- 44.2508 41.9436
- 47.0312
- 42.3186
- 39.8545
- 46.2700
- 41.3580

42.0042

41.1164

41.9280

42.5747

47.0981

43.7647

44.7705

40.2689

40.4496

46.3866

40.9521

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46.8413

48.6762 41.4571

11.1071

42.8641 50.0486

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40.8096

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44.1594

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43.6700

44.0047

43.8260

42.9993

43.2862

46.8712

45.1456 43.1381

42.9309

43.3450

10.0100

43.6686

41.1018 42.0260

43.6796

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37.9231

47.0831

42.6118

41.2533

49.2250

42.0805

40.8640 47.2851

44.0556

45.1690

43.1123

40.2416

46.6414

44.4806

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44.6729

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39.3692

44.8974

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45.8333

43.4224 44.5460

38.6129

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49.0296

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48.1017

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44.1512

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46.1155

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46.6209

45.5599

10.0033

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43.3242

43.1337

For qoi 5, best emulator was n 30 Generated using 1500 samples, and basis of 3 degree Coef 0.999928 Mean Err 0.030991

110.2786

108.5097

114.4978

110.5556

103.9817

113.6483

111.9616

108.6441

105.5130

109.9001

105.4746

116.4720

108.3984

105.5167 107.5283

101.2920

111.8961

111.8232

106.7255

107.9362

109.4209

105.4103

114.0916

107.9488

102.9718

103.2328

110.0457

103.1061

113.2916

105.7042

106.1797

111.3319

109.0155

107.9141

108.1783

106.2304

109.1004 102.6172

102.5007

103.9243

110.9884

106.7209

105.2614

108.8402

109.0212

111.3226

105.6218

107.8917

107.0231 108.7003

104 4700

110.3920

104.8773

106.8929

111.4594

117.1392 114.3026

106.5157

107.3181

108.9254

112.5586

108.1055

106.8502

105.0397 110.1039

103.9795 105.8546

101.9831

112.0112

103.6304

103.6633

105.6148

113.7400

108.1646

110.1847

106.5918

114.0469

111.5963

113.0692

111.6941

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108.3619

108.1593

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107.8275

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104.3663

105.1278

102.0624

110.9442

112.8641

100.7392

105.3319 103.0719

110.8268

104.5706

105.7728

108.5894

112.2542 104.0822

102.9469

103.8497

105.3608

101.7566

106.1332

114.6201

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109.2687

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114.3648

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106.6199

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112.1282

111.2418

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105.7148

105.2693 103.5892

102.3340

105.2100 110.4329

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111.2783

117.1499 107.8819

109.7245

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111.5100

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117.9276

117.5270

104.1808

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106.6770

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107.8372

111.3451

109.2779

104.5875 111.4216

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103.0371

106.6787

104.3227

. . . . . . . . .

105.7126 107.3811

109.6047

108.8150

103.0224

115.8001

105.2616

107.5456

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110.9991 102.7325

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105 2070

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107.1982 106.9630

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106.6753

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107.7420

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For qoi 6, best emulator was n 30 Generated using 1500 samples, and basis of 3 degree Coef 0.999930 Mean Err 0.000058

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