# 

# **N=11, Samples=65, err\_th=1.0結果まとめ**

| **０** |  | **0.9735283461294737),**  **33.234375s,**  **23st** |
| --- | --- | --- |
| **1** |  | **0.9969491536642733),**  **208.3125,**  **165,** |
| **2** |  | **0.9775716202513552),**  **28.078125,**  **19,** |
| **3** |  | **0.9852351997862347),**  **59.15625,**  **44,** |
| **4** |  | **0.9976364272055265),**  **602.28125,**  **482,** |
| **5** |  | **0.9833908382969704),**  **22.34375,**  **14,** |
| **6** |  | **0.9969767745593562),**  **73.78125,**  **55,** |
| **7** |  | **0.9572155128529937),**  **10.9375,**  **5,** |
| **8** |  | **0.9986847553430915),**  **70.859375,**  **53,** |
|  |  |  |
|  |  |  |

# 

# **次数による近似結果の違い**

| **rd6** | **5** |  | **err 35.934166171998015, 157.21875s,**  **591steps** |
| --- | --- | --- | --- |
|  | **6** |  | **err**  **11.37775226212077),**  **83.71875s,**  **216steps,** |
|  | **7** |  | **11.272041254431839),**  **67.625,**  **128,** |
|  | **8** |  | **5.800146757027325),**  **301.5,**  **453,** |
|  | **9** |  | **1.7278069385321158),**  **1629.6875s,**  **1952steps,** |
|  | **10** |  | **1.0006958609760621),**  **3066.1875,**  **3001,** |
|  | **11** |  | **0.5763333068972725),**  **3702.609375,**  **3001,** |
|  | **12** |  | **0.4995337124245274),**  **179.359375,**  **119,** |
| **rd2** | **4** |  | **7.457770289031097),**  **45.640625,**  **262,** |
|  | **5** |  | **2.6645129767397853),**  **561.90625,**  **2144,** |
|  | **6** |  | **2.251572301271643),**  **276.546875,**  **743,** |
|  |  |  | **0.837118558464427),**  **1506.703125,**  **3001,** |

**11次err\_th 1.0結果まとめ 左右分割**

| **０** |  | ((0.9098056378705006, 0.6371690504052849),  4.515625,  (3, 2),  ([[152.0, 27.0],  [85.8004049654844, 31.89098375822191],  [100.36948013635312, 60.85881842376201],  [158.21482235921314, 225.25880984937618],  [98.48795118886635, 68.78397845127758],  [41.25790090274584, 282.6287024287265],  [95.49824107817165, 266.47979417122315],  [149.0, 279.0]],  [[159.0, 26.0],  [215.6436001065384, 26.919007533996567],  [206.01548535902637, 95.73810520991246],  [143.34130502293317, 191.38115470952204],  [183.07351058968885, 96.26459244535766],  [303.92636039802335, 292.3041148870559],  [190.44834822866758, 261.52014618918395],  [156.0, 281.0]])) |
| --- | --- | --- |
| **1** |  | ((0.9347018148002663, 0.9715960272206965),  6.03125,  (4, 5),  ([[146.0, 27.0],  [79.70965778451362, 39.04994437404342],  [75.5920609379749, -39.7845821162225],  [-15.697752524949397, 242.5986439661648],  [82.43209853515171, 180.88735264589857],  [220.2405009739459, 97.66210676350201],  [125.95547414737516, 251.48621810322564],  [147.0, 280.0]],  [[153.0, 28.0],  [214.52897686108037, 36.91594955933986],  [222.3621663860685, -64.1949166808921],  [348.44928863553, 271.9142999201703],  [192.77965635614635, 106.92006834904133],  [128.97631086954937, 157.02460664054604],  [183.28283204701427, 240.96633675905622],  [154.0, 280.0]])) |
| **2** |  | ((0.3710800314857454, 0.7184684084579339),  3.46875,  (1, 1),  ([[165.0, 26.0],  [123.34608496536163, 32.87944592593569],  [138.9305030553959, 125.45850718092083],  [126.23466223610687, 91.76612206240551],  [68.78622700696334, 201.9721475790905],  [155.34713272408476, 204.33589431785066],  [138.99205940546966, 246.37977825697968],  [167.0, 281.0]],  [[172.0, 27.0],  [217.7082969714737, 34.643374485739265],  [141.2378452545854, 134.25982639852697],  [191.35219808609315, 72.00080373529002],  [106.85015590353946, 186.5795211880618],  [169.07222244028713, 213.91881599464145],  [166.61331274219046, 230.3268394123145],  [171.0, 277.0]])) |
| **3** |  | ((0.2998914337117996, 0.7441197497215332),  3.5,  (1, 1),  ([[150.0, 26.0],  [100.09499144929484, 31.60149094435544],  [132.81520208437612, 82.726822225133],  [135.68541899146123, 167.4474369185478],  [93.86959637300278, 135.3397475782098],  [158.29041354759, 228.07501838563306],  [132.8765778760715, 237.70863139038727],  [154.0, 280.0]],  [[158.0, 26.0],  [198.1051299088978, 26.68041002900041],  [197.26441711626646, 92.65849942351741],  [145.24912259481508, 153.631453029716],  [181.91580640946458, 109.56601847626432],  [159.2905967703319, 227.46981534023226],  [166.86280077872215, 231.34560479613333],  [161.0, 279.0]])) |
| **4** |  | ((0.989116310500425, 0.9663702908886568),  12.375,  (11, 22),  ([[151.0, 27.0],  [71.02900781317376, 37.98012035030071],  [167.06113085119236, -52.028425275006406],  [-142.06957790604966, 313.0409967160309],  [292.1824701417846, 135.24475026362438],  [109.60499399621936, 102.00586161786237],  [154.92148529076954, 270.35938979952346],  [148.0, 279.0]],  [[159.0, 27.0],  [229.0974610226314, 36.69657434932951],  [148.25656400891435, -69.25041819485392],  [480.60296087843005, 420.51689680083774],  [-68.42822570335728, 47.50503441349505],  [258.37836442018016, 130.72044264422252],  [144.25272704927266, 268.10373413666645],  [154.0, 280.0]])) |
| **5** |  | ((0.9113386353574853, 0.9525875664787918),  3.578125,  (1, 1),  ([[150.0, 27.0],  [112.16047739575599, 22.958325907748993],  [35.47414480310025, 68.4661745541828],  [190.80548290949753, 157.26066602583106],  [41.97789440283051, 115.09495015443743],  [85.62798702371586, 272.0779017911519],  [147.5066308830149, 222.70339105818883],  [150.0, 279.0]],  [[158.0, 27.0],  [206.41891085298374, 20.428248960444392],  [221.70825131390632, 64.15823366684883],  [216.59687820399432, 182.26106892244897],  [145.54778847195624, 95.75426533496676],  [283.8656854259381, 278.74182603164513],  [149.9036465583836, 225.41753964324718],  [156.0, 279.0]])) |
| **6** |  | ((0.94370217467285, 0.9965374817944901),  11.0,  (3, 24),  ([[148.0, 26.0],  [94.54563168331627, 34.0965650925596],  [99.7719703225154, 36.01963813240929],  [109.26252476962362, 307.8604383589817],  [145.37773475441276, -79.42873347198733],  [-55.26163202877228, 445.5016289461956],  [179.8538445461571, 172.0529087106706],  [138.0, 279.0]],  [[157.0, 26.0],  [225.45351815966387, 17.54238422988186],  [237.4688649767064, 200.19915827000483],  [72.945880416956, -82.9368561108529],  [417.13731179727466, 341.504970220964],  [134.58646944450308, 298.0736756139768],  [205.7271642052468, 189.73671346588765],  [144.0, 281.0]])) |
| **7** |  | ((0.9175647276034908, 0.3050453378437994),  4.0,  (2, 1),  ([[154.0, 26.0],  [125.85255382236303, 26.87457979161683],  [112.6618951574996, 149.8167143789595],  [126.29196606285856, 43.309235893955744],  [103.77722792508455, 236.24761980356683],  [103.53950341318306, 199.55335527027168],  [144.94848317306673, 248.81698201994675],  [161.0, 281.0]],  [[162.0, 26.0],  [192.3934046839607, 30.112633757730357],  [166.23937178772084, 127.7355531272196],  [240.91304723075837, 82.11046791459057],  [131.37288723913161, 188.03900907785288],  [247.38521231681608, 231.1181019709848],  [156.4912626193076, 228.39664491974028],  [168.0, 279.0]])) |
| **8** |  | ((0.2926229057692542, 0.5543670256058364),  3.484375,  (1, 1),  ([[157.0, 26.0],  [108.05988651753565, 24.1992594250077],  [154.36584729760034, 117.60657951164774],  [85.88123858188013, 104.37910893944785],  [160.6906706767059, 179.6060629199862],  [105.30492621458728, 215.22966802383837],  [157.59312813812457, 235.9517640603019],  [159.0, 280.0]],  [[163.0, 28.0],  [205.48301627304994, 22.1736500815213],  [169.04254565857528, 138.731700327025],  [149.18356876613592, 73.98851424155865],  [229.90250895258828, 218.65057865123276],  [141.53983823295601, 181.6636506328186],  [162.08386291448673, 245.66061240174193],  [166.0, 279.0]])) |

# 全周　サンプル数別の結果

err\_th=1.0

|  | samples |  |  |
| --- | --- | --- | --- |
| 6 | 21 |  | **(0.4999536207682789, 0.4999536207682789),**  **48.3125s,**  **92,** |
| 6 | 25 |  | **(0.9996932154067476, 0.9996932154067476),**  **55.578125s,**  **94** |
| 6 | 29 |  | **(0.9970385873563534, 0.9970385873563534),**  **48.75s,**  **73,** |
| 6 | 33 |  | **(0.9986717458734398, 0.9986717458734398),**  **42.640625s,**  **57,** |
| 6 | 41 |  | **(0.9976266603720073, 0.9976266603720073),**  **74.765625s,**  **86,** |
| ４ | 41 |  | **(0.99889470996172, 0.99889470996172),**  **480.0s,**  **575,** |
| ４ | 33 |  | **(0.9984627803046467, 0.9984627803046467),**  **379.8125s,**  **540,** |
| ４ | 29 |  | **(0.9982231836749967, 0.9982231836749967),**  **227.71875s,**  **356** |
| ４ | 25 |  | **(0.9994936725877718, 0.9994936725877718),**  **383.046875s,**  **672,** |
| ４ | 21 |  | **(0.9999690944728679, 0.9999690944728679),**  **709.5s,**  **1391,** |
| 1 | 21 |  | **(1.0094658054584895, 1.0094658054584895),**  **1509.203125s,**  **3001,** |
| 1 | 25 |  | **(0.9973959868006019, 0.9973959868006019),**  **134.71875s,**  **233,** |
| １ | 29 |  | **(0.9989480962002485, 0.9989480962002485),**  **116.625s,**  **180,** |
| 1 | 33 |  | **(0.9953008793767446, 0.9953008793767446),**  **167.796875s,**  **236,** |
| 1 | 37 |  | **(0.991052597115972, 0.991052597115972),**  **129.640625,**  **166** |
| 1 | 41 |  | **(0.9965440178710512, 0.9965440178710512),**  **133.109375s,**  **156,** |
|  |  |  |  |
| 7 | 21 |  | **(0.9855352272992766, 0.9855352272992766),**  **7.734375s,**  **11,** |
| 7 | 25 |  | **(0.9392477616242819, 0.9392477616242819),**  **4.15625s,**  **3,** |
| 7 | 33 |  | **(0.968940194444742, 0.968940194444742),**  **6.5s,**  **5,** |
| 7 | 41 |  | **(0.8313036867451447, 0.8313036867451447),**  **7.125s,**  **4,** |
| 0 | 21 |  | **(0.9738680061066273, 0.9738680061066273),**  **14.828125s,**  **25,** |
| 0 | 25 |  | **(0.9574310112166602, 0.9574310112166602),**  **16.046875s,**  **24,** |
| 0 | 33 |  | **(0.9869270758308001, 0.9869270758308001),**  **21.328125s,**  **26,** |
| 0 | 41 |  | **(0.9571512562354145, 0.9571512562354145),**  **28.5625s,**  **30,** |
| 0 | 65 |  | **(0.9889811619287606, 0.9889811619287606),**  **33.65625,**  **23,** |
| 2 | 21 |  | **(0.8757906080706099, 0.8757906080706099),**  **6.703125s,**  **9,** |
| 2 | 25 |  | **(0.9688349237180521, 0.9688349237180521),**  **11.484375s,**  **16,** |
| 2 | 33 |  | **(0.9775040872963966, 0.9775040872963966),**  **16.765625s,**  **20,** |
| 2 | 41 |  | **(0.980110828631181, 0.980110828631181),**  **21.796875s,**  **22,** |
| 3 | 21 |  | **(0.9782837287858903, 0.9782837287858903),**  **15.421875s,**  **26,** |
| 3 | 25 |  | **(0.9885504870174793, 0.9885504870174793),**  **19.46875s,**  **30,** |
| 3 | 33 |  | **(0.9820217760740572, 0.9820217760740572),**  **31.890625s,**  **41,** |
| 3 | 41 |  | **(0.9813798904504292, 0.9813798904504292),**  **41.828125s,**  **46,** |
| 5 | 21 |  | **(0.9989120835308246, 0.9989120835308246),**  **24.796875s,**  **45,** |
| 5 | 25 |  | **(0.9901612019280974, 0.9901612019280974),**  **18.9375s,**  **29,** |
| 5 | 33 |  | **(0.9845824887511404, 0.9845824887511404),**  **13.9375s,**  **15,** |
| 5 | 41 |  | **(0.9952513263082753, 0.9952513263082753),**  **24.546875s,**  **25,** |
| 8 | 21 |  | **(0.9856931895129264, 0.9856931895129264),**  **9.484375s,**  **14,** |
| 8 | 25 |  | **(0.9977237780074149, 0.9977237780074149),**  **19.0s,**  **29,** |
| 8 | 33 |  | **(0.9954627877089371, 0.9954627877089371),**  **26.421875s,**  **33,** |
| 8 | 41 |  | **(0.9996451895718276, 0.9996451895718276),**  **66.34375s,**  **75,** |
|  |  |  |  |
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fitT mode 1 11次　標本点６５まとめ

| 0 | 65 |  | **(0.9889811619287606, 0.9889811619287606),**  **33.65625,**  **23,** |
| --- | --- | --- | --- |
| 1 | 65 |  | **(0.9929871213929323, 0.9929871213929323),**  **204.984375,**  **163,** |
| 2 | 65 |  | (0.9879633344197785, 0.9879633344197785),  29.640625,  20, |
| 3 | 65 |  | (0.9877075446895006, 0.9877075446895006),  60.84375,  45, |
| 4 | 65 |  | (0.9988864464539653, 0.9988864464539653),  649.234375,  525, |
| 5 | 65 |  | (0.9852775711702368, 0.9852775711702368),  23.109375,  14, |
| 6 | 65 |  | (0.9900732049598819, 0.9900732049598819),  75.109375,  57, |
| 7 | 65 |  | (0.9007830202221052, 0.9007830202221052),  11.46875,  5, |
| 8 | 65 |  | (0.9983217210753271, 0.9983217210753271),  77.53125,  59, |

| 0 | 29 |  | (0.9886146175881628, 0.9886146175881628),  21.734375,  30, |
| --- | --- | --- | --- |
| 1 | 29 |  |  |
| 2 | 29 |  | (0.9964446761521977, 0.9964446761521977),  15.03125s,  19steps, |
| 3 | 29 |  | (0.9871934999992203, 0.9871934999992203),  31.15625,  45, |
| 4 | 29 |  |  |
| 5 | 29 |  | (0.9854905026533315, 0.9854905026533315),  18.125,  24, |
| 6 | 29 |  |  |
| 7 | 29 |  | (0.9394364977321463, 0.9394364977321463),  5.9375,  5, |
| 8 | 29 |  | (0.9986015551413316, 0.9986015551413316),  23.109375,  32, |
|  |  |  |  |

| 0 | 51 |  | (0.9603977956415831, 0.9603977956415831),  30.46875,  26, |
| --- | --- | --- | --- |
| 1 | 51 |  | (0.9960027464912606, 0.9960027464912606),  171.234375,  167, |
| 2 | 51 |  | (0.9992284758560054, 0.9992284758560054),  50.390625,  46, |
| 3 | 51 |  | (0.9947573313070339, 0.9947573313070339),  46.53125,  42, |
| 4 | 51 |  | (0.9992435557248336, 0.9992435557248336),  418.171875,  414, |
| 5 | 51 |  | (0.982105131579907, 0.982105131579907),  25.65625,  21, |
| 6 | 51 |  | (0.9941089803293102, 0.9941089803293102),  64.1875,  60, |
| 7 | 51 |  | (0.9209335273131594, 0.9209335273131594),  8.328125,  4, |
| 8 | 51 |  | (0.9947625809133516, 0.9947625809133516),  96.09375,  92, |