

(*Simulate result on 16⁴ sites lattice with Z2 and Z6 *)

xcyc = {0.01, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.017, 0.018, 0.019, 0.02, 0.021, 0.022, 0.023, 0.024, 0.025, 0.026, 0.027, 0.028, 0.029, 0.03, 0.031, 0.032, 0.033, 0.034, 0.035, 0.036, 0.037, 0.038, 0.039, 0.04, 0.041, 0.042, 0.043, 0.044, 0.045, 0.046, 0.047, 0.048, 0.049, 0.05, 0.051, 0.052, 0.053, 0.054, 0.055, 0.056, 0.057, 0.058, 0.059, 0.06, 0.061, 0.062, 0.063, 0.064, 0.06500001, 0.066, 0.067, 0.068, 0.06900001, 0.07, 0.071, 0.072, 0.07300001, 0.074, 0.075, 0.07600001, 0.077, 0.078, 0.079, 0.08000001, 0.081, 0.082, 0.083, 0.08400001, 0.085, 0.086, 0.087, 0.08800001, 0.089, 0.09, 0.09100001, 0.092, 0.093, 0.094, 0.09500001, 0.096, 0.097, 0.098, 0.09900001, 0.1, 0.101, 0.102, 0.103, 0.104, 0.105, 0.106, 0.107, 0.108, 0.109, 0.11, 0.111, 0.112, 0.113, 0.114, 0.115, 0.116, 0.117, 0.118, 0.119, 0.12, 0.121, 0.122, 0.123, 0.124, 0.125, 0.126, 0.127, 0.128, 0.129, 0.13, 0.131, 0.132, 0.133, 0.134, 0.135, 0.136, 0.137, 0.138, 0.139, 0.14, 0.141, 0.142, 0.143, 0.144, 0.145, 0.146, 0.147, 0.148, 0.149, 0.15, 0.151, 0.152, 0.153, 0.154, 0.155, 0.156, 0.157, 0.158, 0.159, 0.16, 0.161, 0.162, 0.163, 0.164, 0.165, 0.166, 0.167, 0.168, 0.169, 0.17, 0.171, 0.172, 0.173, 0.174, 0.175, 0.176, 0.177, 0.178, 0.179, 0.18, 0.181, 0.182, 0.183, 0.184, 0.185, 0.186, 0.187, 0.188, 0.189, 0.19, 0.191, 0.192, 0.193, 0.194, 0.195, 0.196, 0.197, 0.198, 0.199, 0.2, 0.201, 0.202, 0.203, 0.204, 0.205, 0.206, 0.207, 0.208, 0.209, 0.21, 0.211, 0.212, 0.213, 0.214, 0.215, 0.216, 0.217, 0.218, 0.219, 0.22, 0.221, 0.222, 0.223, 0.224, 0.225, 0.226, 0.227, 0.228, 0.229, 0.23, 0.231, 0.232, 0.233, 0.234, 0.235, 0.236, 0.237, 0.238, 0.239, 0.24, 0.241, 0.242, 0.243, 0.244, 0.245, 0.246, 0.247, 0.248, 0.249, 0.25, 0.251, 0.252, 0.253, 0.254, 0.255, 0.256, 0.257, 0.258, 0.259, 0.26, 0.261, 0.262, 0.263, 0.264, 0.265, 0.266, 0.267, 0.268, 0.269, 0.27, 0.271, 0.272, 0.273, 0.274, 0.275, 0.276, 0.277, 0.278, 0.279, 0.28, 0.281, 0.282, 0.283, 0.284, 0.285, 0.286, 0.287, 0.288, 0.289, 0.29, 0.291, 0.292, 0.293, 0.294, 0.295, 0.296, 0.297, 0.298, 0.299, 0.3, 0.301, 0.302, 0.303, 0.304, 0.305, 0.306, 0.307, 0.308, 0.309, 0.31, 0.311, 0.312, 0.313, 0.314, 0.315, 0.316, 0.317, 0.318, 0.319, 0.32, 0.321, 0.322, 0.323, 0.324, 0.325, 0.326, 0.327, 0.328, 0.329, 0.33, 0.331, 0.332, 0.333, 0.334, 0.335, 0.336, 0.337, 0.338, 0.339, 0.34, 0.341, 0.342, 0.343, 0.344, 0.345, 0.346, 0.347, 0.348, 0.349, 0.35, 0.351, 0.352, 0.353, 0.354, 0.355, 0.356, 0.357, 0.358, 0.359, 0.36, 0.361, 0.362, 0.363, 0.364, 0.365, 0.366, 0.367, 0.368, 0.369, 0.37, 0.371, 0.372, 0.373, 0.374, 0.375, 0.376, 0.377, 0.378, 0.379, 0.38, 0.381, 0.382, 0.383, 0.384, 0.385, 0.386, 0.387, 0.388, 0.389, 0.39, 0.391, 0.392, 0.393, 0.394, 0.395, 0.396, 0.397, 0.398, 0.399, 0.4, 0.401, 0.402, 0.403, 0.404, 0.405, 0.406, 0.407, 0.408, 0.409, 0.41, 0.411, 0.412, 0.413, 0.414, 0.415, 0.416, 0.417, 0.418, 0.419, 0.42, 0.421, 0.422, 0.423, 0.424, 0.425, 0.426, 0.427, 0.428, 0.429, 0.43, 0.431, 0.432, 0.433, 0.434, 0.435, 0.436, 0.437, 0.438, 0.439, 0.44, 0.441, 0.442, 0.443, 0.444, 0.445, 0.446, 0.447, 0.448, 0.449, 0.45, 0.451, 0.452, 0.453, 0.454, 0.455, 0.456, 0.457, 0.458, 0.459, 0.46, 0.461, 0.462, 0.463, 0.464, 0.465, 0.466, 0.467, 0.468, 0.469, 0.47, 0.471, 0.472, 0.473, 0.474, 0.475, 0.476, 0.477, 0.478, 0.479, 0.48, 0.481, 0.482, 0.483, 0.484, 0.485, 0.486, 0.487, 0.488, 0.489, 0.49, 0.491, 0.492, 0.493, 0.494, 0.495, 0.496, 0.497, 0.498, 0.499, 0.5, 0.501, 0.502, 0.503, 0.504, 0.505, 0.506, 0.507, 0.508, 0.509, 0.5100001, 0.511, 0.512, 0.513, 0.514, 0.515, 0.516, 0.517, 0.518, 0.5190001, 0.52, 0.521, 0.522, 0.523, 0.524, 0.525, 0.526, 0.527, 0.528, 0.529, 0.53, 0.531, 0.532, 0.5330001, 0.534, 0.535, 0.536, 0.537, 0.538, 0.539, 0.54, 0.541, 0.542, 0.543, 0.544, 0.545, 0.546, 0.5470001, 0.548, 0.549, 0.55, 0.551, 0.552, 0.553, 0.554, 0.555, 0.5560001, 0.557, 0.558, 0.559, 0.56, 0.561, 0.562, 0.563, 0.564, 0.565, 0.566, 0.567, 0.568, 0.569, 0.5700001, 0.571, 0.572, 0.573, 0.574, 0.575, 0.576, 0.577, 0.578, 0.5790001, 0.58, 0.581, 0.582, 0.583, 0.5840001, 0.585, 0.586, 0.587, 0.588, 0.589, 0.59, 0.591, 0.592, 0.5930001, 0.594, 0.595, 0.596, 0.597, 0.598, 0.599, 0.6, 0.601, 0.602, 0.603, 0.604, 0.605, 0.606, 0.6070001, 0.608, 0.609, 0.61, 0.611, 0.612, 0.613, 0.614, 0.615, 0.6160001, 0.617, 0.618, 0.619, 0.62, 0.6210001, 0.622, 0.623, 0.624, 0.625, 0.626, 0.627, 0.628, 0.629, 0.6300001, 0.631, 0.632, 0.633, 0.634, 0.6350001, 0.636, 0.637, 0.638, 0.6390001, 0.64, 0.641, 0.642, 0.643, 0.6440001, 0.645, 0.646, 0.647, 0.648, 0.649, 0.65, 0.651, 0.652, 0.6530001, 0.654, 0.655, 0.656, 0.657, 0.6580001, 0.659, 0.66, 0.661, 0.6620001, 0.663, 0.664, 0.665, 0.666, 0.6670001, 0.668, 0.669, 0.67, 0.671, 0.6720001, 0.673, 0.674, 0.675, 0.6760001, 0.677, 0.678, 0.679, 0.68, 0.6810001, 0.682, 0.683, 0.684,

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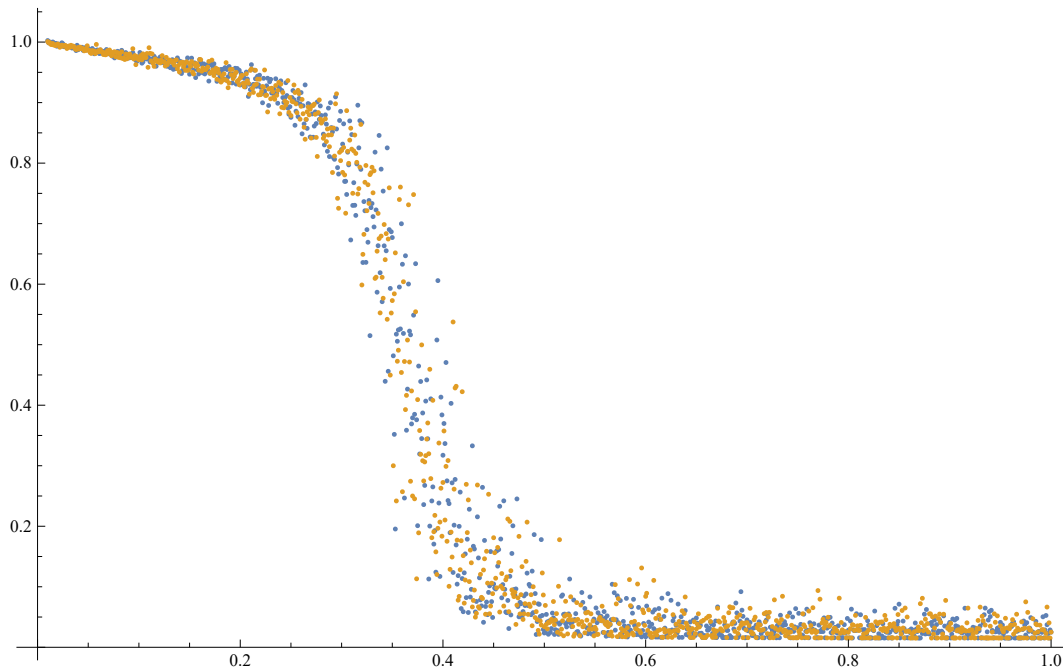
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ListPlot[{Transpose[{xcyc, ycyc}], Transpose[{xcyc2, ycyc2}]}, PlotRange -> All]

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(*converge it*)

(*midv[vv_] := Sort[vv][[(Length[vv]+1)/2]];*)

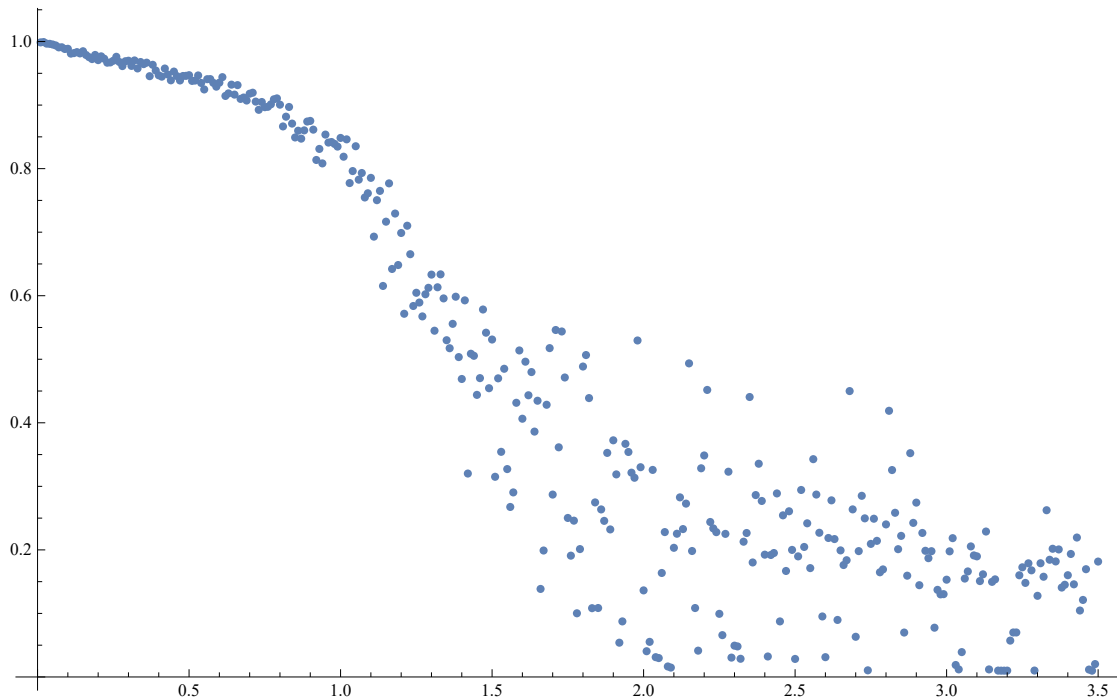
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For[i=1,i<=(lengthv/sepv),i++,
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  tpty=Table[0,{i,1,sepv+1}];
  For[j=1,j<=sepv+1,j++,
    tptx[[j]]=xcyc[[ (i-1)*sepv+j]];
    tpty[[j]]=ycyc[[ (i-1)*sepv+j]];
  ];
  xcycC[[i]]=midv[tptx];
  ycycC[[i]]=midv[tpty];
];*)

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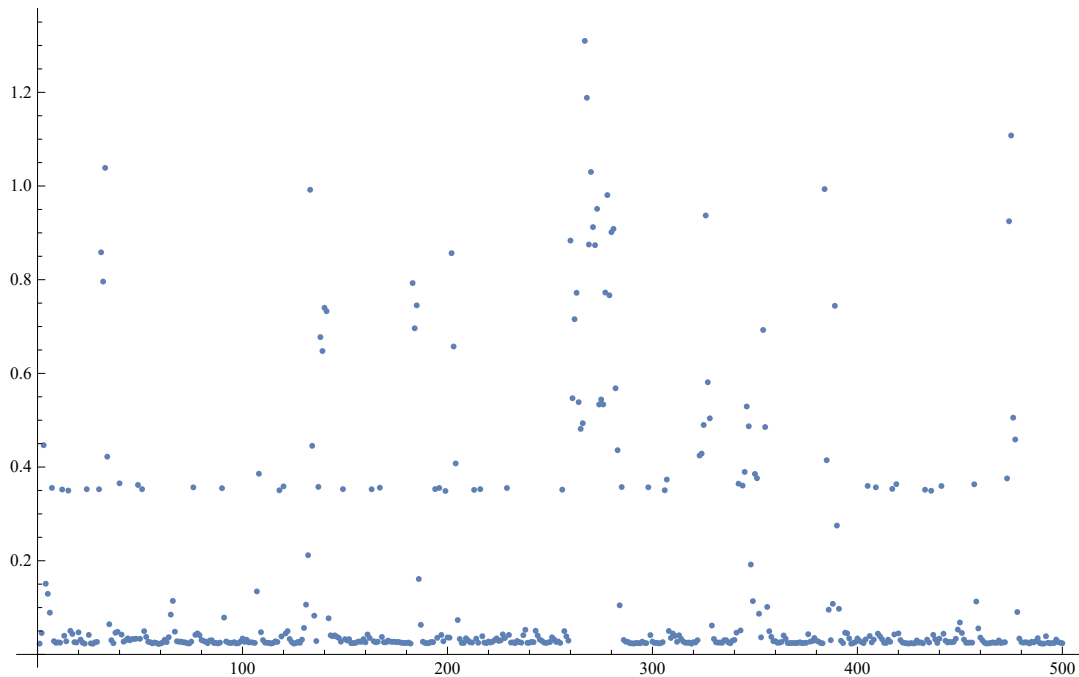
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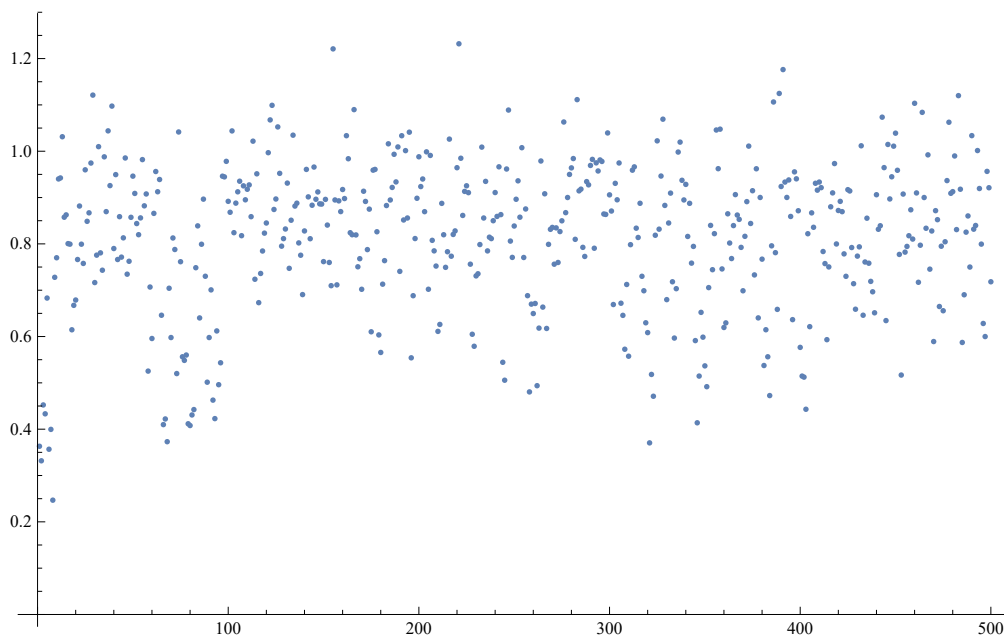
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```

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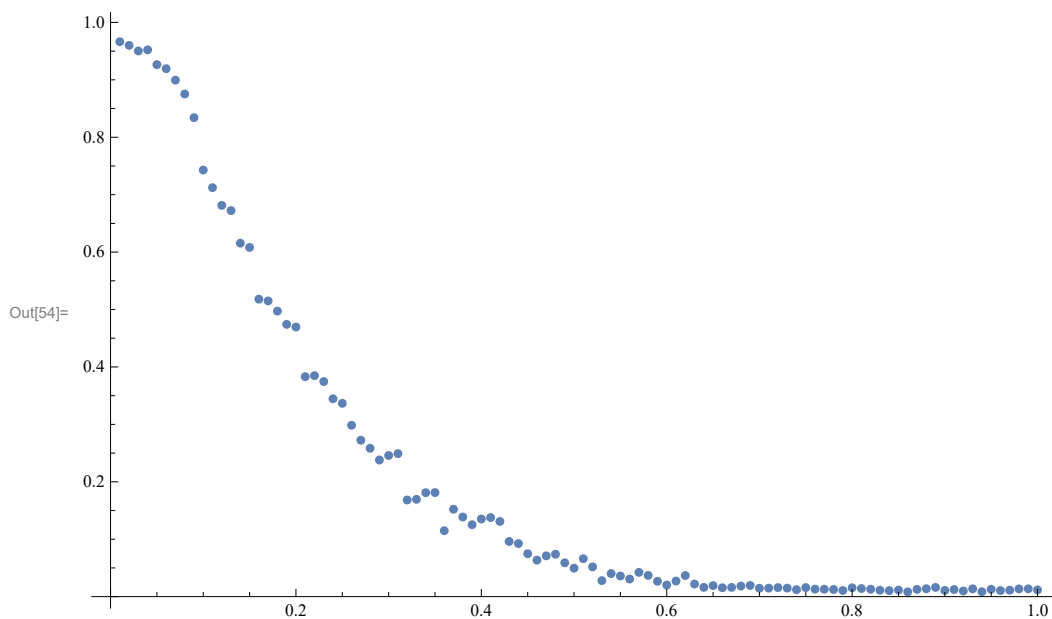
In[52]:= x3dz2 = {0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.09999999, 0.11, 0.12, 0.13, 0.14,
  0.15, 0.16, 0.17, 0.18, 0.19, 0.2, 0.21, 0.22, 0.23, 0.24, 0.25, 0.26, 0.27, 0.28,
  0.29, 0.3, 0.31, 0.32, 0.33, 0.34, 0.35, 0.36, 0.37, 0.38, 0.39, 0.4, 0.41, 0.42, 0.43,
  0.44, 0.45, 0.46, 0.47, 0.48, 0.49, 0.5, 0.51, 0.52, 0.53, 0.54, 0.55, 0.56, 0.57,
  0.58, 0.59, 0.6, 0.61, 0.62, 0.63, 0.64, 0.65, 0.66, 0.67, 0.68, 0.69, 0.7, 0.71, 0.72,
  0.73, 0.74, 0.75, 0.76, 0.77, 0.78, 0.79, 0.8, 0.81, 0.82, 0.83, 0.84, 0.85, 0.86,
  0.87, 0.88, 0.89, 0.9, 0.91, 0.92, 0.93, 0.94, 0.95, 0.96, 0.97, 0.98, 0.98999999, 1};
y3dz2 = {0.9663965, 0.9600292, 0.9503393, 0.952208, 0.9264951, 0.9194351, 0.8994673,
  0.8753457, 0.8340946, 0.7428712, 0.7122784, 0.6813747, 0.6722729, 0.6155521,
  0.608112, 0.5180647, 0.5149848, 0.4973009, 0.474183, 0.4695113, 0.3830981, 0.384863,
  0.3745847, 0.3445458, 0.336621, 0.2984843, 0.2724253, 0.2583749, 0.2379569,
  0.2458472, 0.249031, 0.1682932, 0.1694699, 0.1810286, 0.1812016, 0.1148602, 0.152201,
  0.1387043, 0.1252422, 0.135209, 0.1377007, 0.1309524, 0.09603406, 0.09243494,
  0.07468165, 0.06357287, 0.07104789, 0.07381645, 0.05886629, 0.04959165, 0.0660991,
  0.05180646, 0.02792776, 0.04017855, 0.03595652, 0.03066168, 0.04222037, 0.03696018,
  0.0267165, 0.02021041, 0.02713179, 0.0367525, 0.02197534, 0.01612679, 0.01920682,
  0.01550387, 0.01609218, 0.01841084, 0.01948366, 0.01460409, 0.01481174, 0.01574613,
  0.01481173, 0.01218162, 0.01574611, 0.0130814, 0.01290837, 0.01245848, 0.01072813,
  0.01546926, 0.01408499, 0.01294297, 0.0110742, 0.0105205, 0.01142027, 0.008271043,
  0.01263151, 0.01377354, 0.01605758, 0.01086656, 0.01238926, 0.009862959, 0.0136005,
  0.008582504, 0.01280454, 0.0105897, 0.01124723, 0.01349669, 0.01363511, 0.01173174};

```

```

In[54]:= ListPlot[Transpose[{x3dz2, y3dz2}], PlotRange -> All]

```



```

In[94]:= x3dz4 = {0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.09999999, 0.11, 0.12, 0.13, 0.14,
0.15, 0.16, 0.17, 0.18, 0.19, 0.2, 0.21, 0.22, 0.23, 0.24, 0.25, 0.26, 0.27, 0.28,
0.29, 0.3, 0.31, 0.32, 0.33, 0.34, 0.35, 0.36, 0.37, 0.38, 0.39, 0.4, 0.41, 0.42, 0.43,
0.44, 0.45, 0.46, 0.47, 0.48, 0.49, 0.5, 0.51, 0.52, 0.53, 0.54, 0.55, 0.56, 0.57,
0.58, 0.59, 0.6, 0.61, 0.62, 0.63, 0.64, 0.65, 0.66, 0.67, 0.68, 0.69, 0.7, 0.71, 0.72,
0.73, 0.74, 0.75, 0.76, 0.77, 0.78, 0.79, 0.8, 0.81, 0.82, 0.83, 0.84, 0.85, 0.86,
0.87, 0.88, 0.89, 0.9, 0.91, 0.92, 0.93, 0.94, 0.95, 0.96, 0.97, 0.98, 0.98999999, 1,
1.01, 1.02, 1.03, 1.04, 1.05, 1.06, 1.07, 1.08, 1.09, 1.1, 1.11, 1.12, 1.13, 1.14,
1.15, 1.16, 1.17, 1.18, 1.19, 1.2, 1.21, 1.22, 1.23, 1.24, 1.25, 1.26, 1.27, 1.28,
1.29, 1.3, 1.31, 1.32, 1.33, 1.34, 1.35, 1.36, 1.37, 1.38, 1.39, 1.4, 1.41, 1.42, 1.43,
1.44, 1.45, 1.46, 1.47, 1.48, 1.49, 1.5, 1.51, 1.52, 1.53, 1.54, 1.55, 1.56, 1.57,
1.58, 1.59, 1.6, 1.61, 1.62, 1.63, 1.64, 1.65, 1.66, 1.67, 1.68, 1.69, 1.7, 1.71,
1.72, 1.73, 1.74, 1.75, 1.76, 1.77, 1.78, 1.79, 1.8, 1.81, 1.82, 1.83, 1.84, 1.85,
1.86, 1.87, 1.88, 1.89, 1.9, 1.91, 1.92, 1.93, 1.94, 1.95, 1.96, 1.97, 1.98, 1.99, 2};
y3dz4 = {0.9764849, 0.9828867, 0.9755329, 0.9693556, 0.9540246, 0.9529348, 0.9515329,
0.951983, 0.9577796, 0.9518442, 0.9409086, 0.9297827, 0.9091742, 0.9116145, 0.8599808,
0.8771973, 0.83868, 0.8526438, 0.8633373, 0.8326927, 0.8240065, 0.8160472, 0.7085233,
0.682932, 0.6307102, 0.642615, 0.5970722, 0.6534296, 0.5373237, 0.6393445, 0.5760487,
0.5614967, 0.5523602, 0.6101707, 0.5272529, 0.5352126, 0.4683348, 0.4756715, 0.4798935,
0.4587658, 0.460652, 0.4411166, 0.4167185, 0.4115622, 0.3767477, 0.3581983, 0.3985326,
0.3858494, 0.3449093, 0.3460858, 0.3012353, 0.3099908, 0.320944, 0.269051, 0.2889501,
0.276855, 0.2623892, 0.2779797, 0.2546719, 0.2161718, 0.1903204, 0.2091465, 0.2196497,
0.173242, 0.1766334, 0.1727574, 0.2012908, 0.1703351, 0.1841085, 0.1669781, 0.1689681,
0.1321983, 0.1524952, 0.1567518, 0.1441203, 0.1217989, 0.1292047, 0.1198955, 0.1060354,
0.1351571, 0.1137009, 0.1504533, 0.109773, 0.1201723, 0.08324683, 0.07824615, 0.09035847,
0.0866729, 0.07746744, 0.072709, 0.0776751, 0.08904346, 0.07689649, 0.07961308, 0.08433691,
0.05884898, 0.05630537, 0.05800113, 0.08693242, 0.04708263, 0.05462695, 0.05082018,
0.07385104, 0.05730898, 0.04318938, 0.04905524, 0.04031699, 0.0448159, 0.05672064,
0.04317209, 0.04355275, 0.05632269, 0.04142444, 0.04872645, 0.04043812, 0.0488303,
0.02538413, 0.02920819, 0.02550525, 0.02810079, 0.02746055, 0.02505537, 0.02346346,
0.02405178, 0.02664729, 0.02398255, 0.02057378, 0.02055647, 0.01886074, 0.02088525,
0.0232385, 0.02252908, 0.0196567, 0.02104099, 0.01984704, 0.02104097, 0.01934524,
0.01912029, 0.02491694, 0.0211794, 0.01979512, 0.01654208, 0.01834164, 0.01996815,
0.01609218, 0.01695736, 0.01323712, 0.01583264, 0.01527893, 0.01527893, 0.01330634,
0.01657669, 0.01496747, 0.01475983, 0.01097037, 0.01493286, 0.009084301, 0.01247578,
0.01583264, 0.01136835, 0.01356589, 0.01294297, 0.01301218, 0.01292566, 0.0115587,
0.01199128, 0.01221622, 0.009966769, 0.01122993, 0.01548658, 0.01629983, 0.0131333,
0.01238926, 0.0126488, 0.01432726, 0.01280454, 0.01320252, 0.01716501, 0.0141196,
0.01500207, 0.01084925, 0.01308139, 0.01116071, 0.01418881, 0.01380814, 0.01181824,
0.01147217, 0.01482906, 0.01204319, 0.01283915, 0.01347937, 0.01225083, 0.01031284,
0.01401577, 0.01280454, 0.012147, 0.01290836, 0.01510591, 0.01370432, 0.01505399};

```



```
In[96]:= ListPlot[Transpose[{x3dz4, y3dz4}], PlotRange -> All]
```

