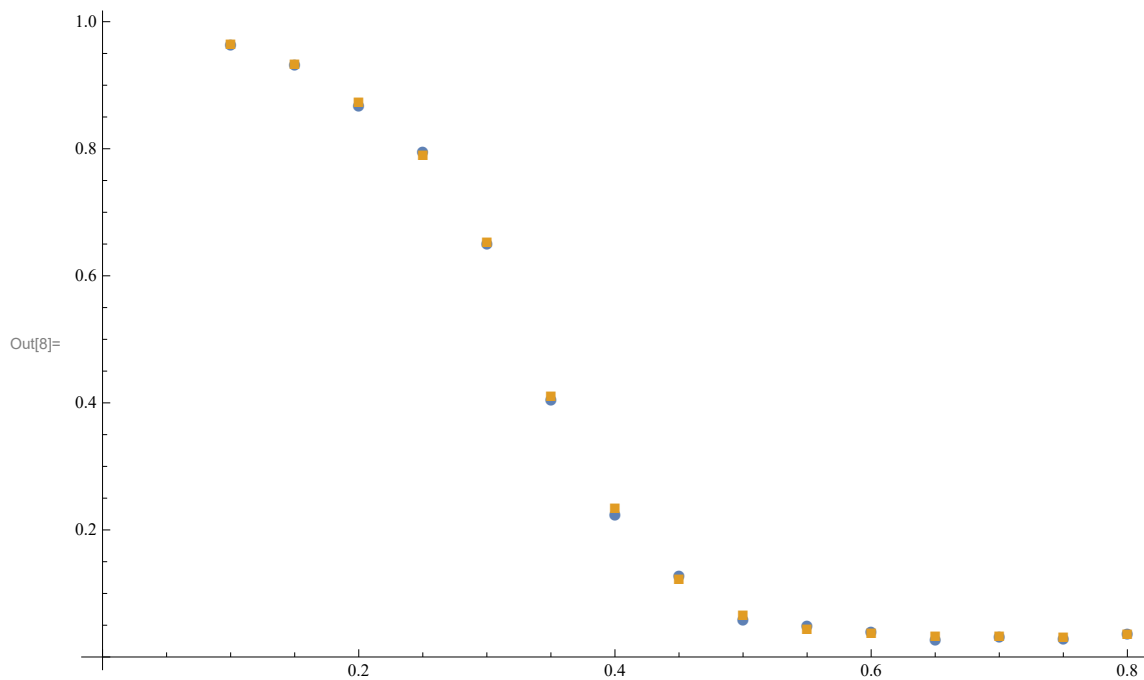


```
(*Simulate result on 164 sites lattice with Z2*)
x1 = {0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8};
(*data simulated*)
(*Set beta, run 1000 steps first, then, run 3000 steps for E*)
(*increase beta from 0.1 to 0.8*)
y1 = {0.9644395, 0.932228, 0.86845, 0.7955222, 0.6498525, 0.4055241, 0.2243037, 0.1283225,
      0.05817301, 0.04882579, 0.040146, 0.02774514, 0.03233331, 0.02854415, 0.03666271};
(*decrease beta from 0.8 to 0.1*)
z1 = {0.9656972, 0.9339105, 0.8743563, 0.7909998, 0.6535755, 0.4118887, 0.2350546, 0.1231947,
      0.06724618, 0.04413027, 0.03800783, 0.03348425, 0.03334782, 0.03144938, 0.03666271};
(* there is no difference between increase beta and decrease beta*)
```

```
In[8]:= ListPlot[{Transpose[{x1, y1}], Transpose[{x1, z1}]], PlotMarkers → Automatic]
```



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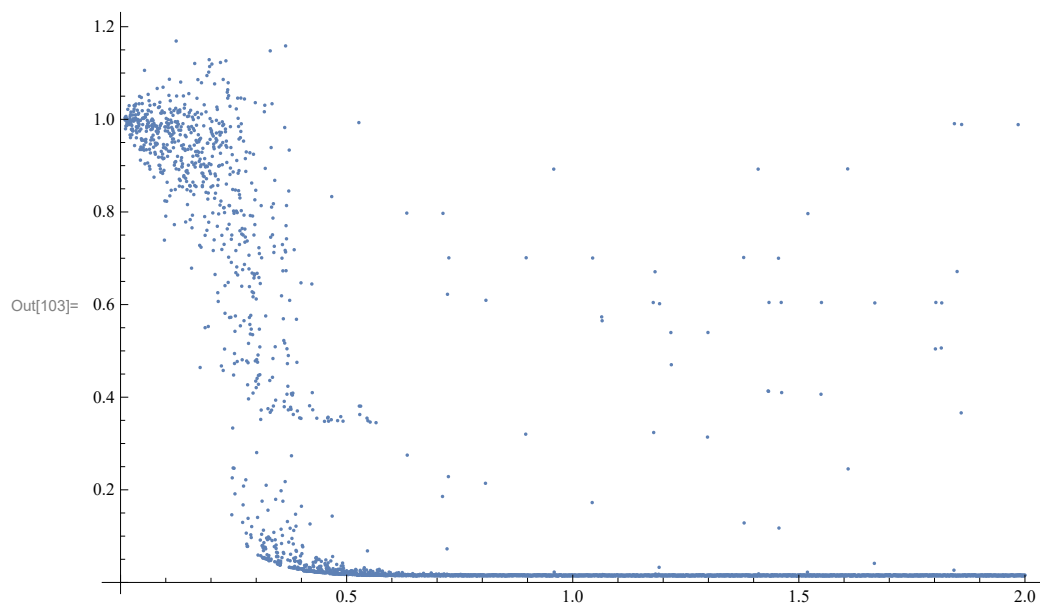
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```

```
In[103]:= ListPlot[Transpose[{xcyc, ycyc}], PlotRange -> All]
```

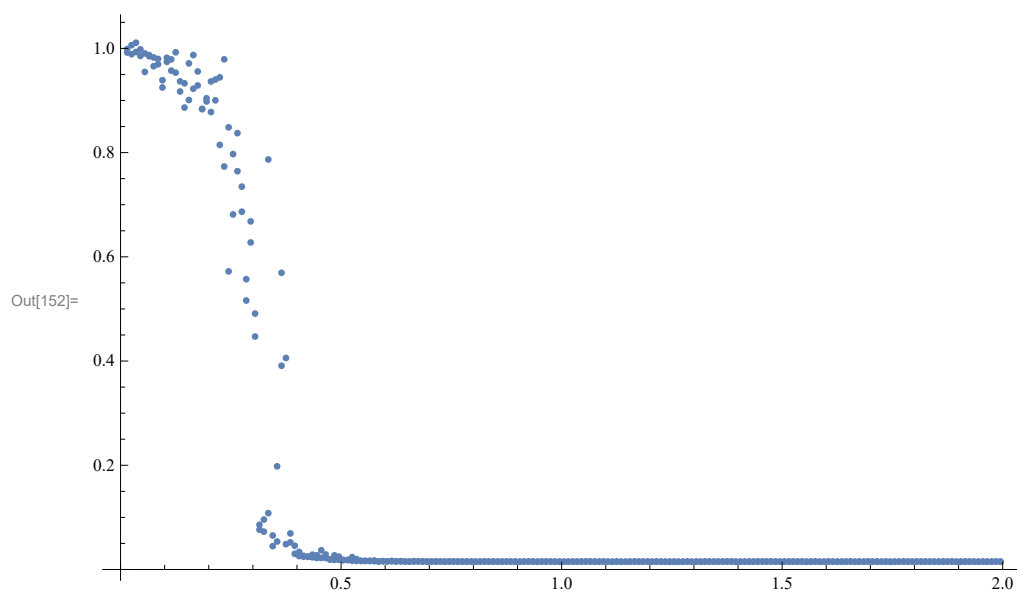


(*converge it*)

```
In[114]:= midv[vv_] := Sort[vv][[(Length[vv] + 1) / 2]];

In[148]:= lengthv = 3980; sepv = 10;
xcycC = Table[0, {i, 1, lengthv / sepv}];
ycycC = Table[0, {i, 1, lengthv / sepv}];
For[i = 1, i ≤ (lengthv / sepv), i++,
  tptx = Table[0, {i, 1, sepv + 1}];
  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];
];

In[152]:= ListPlot[Transpose[{xcycC, ycycC}], PlotRange → All]
```



```

ln[154]:= z6x = {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,
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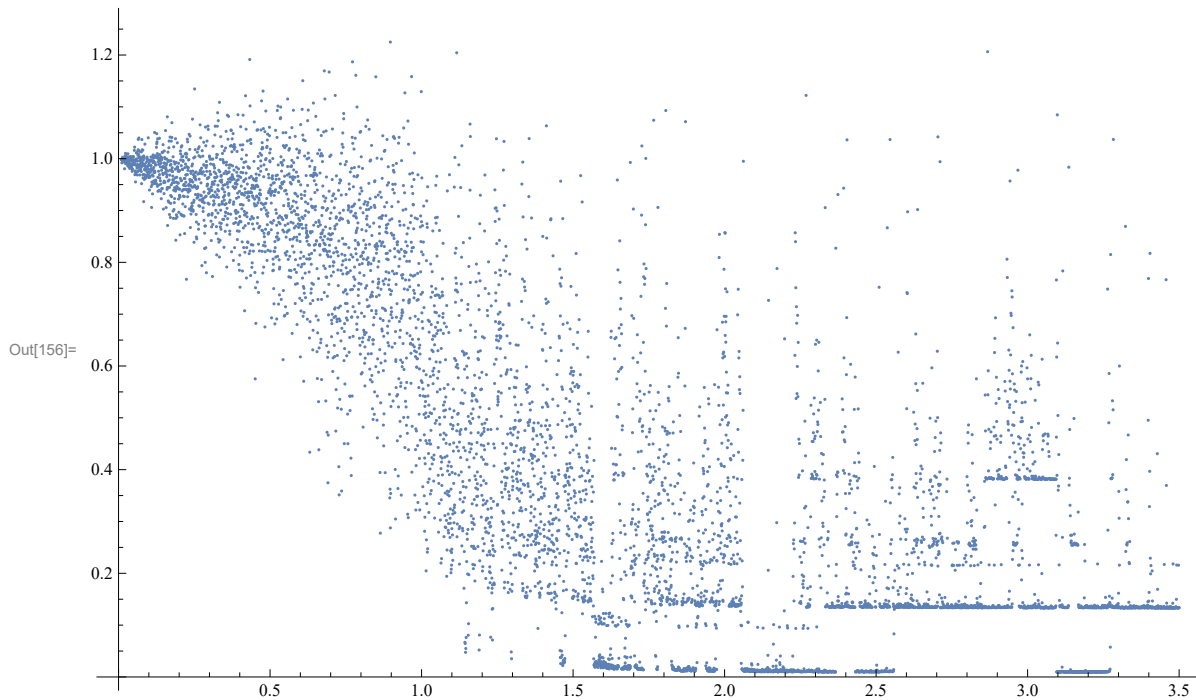
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```
In[156]:= ListPlot[Transpose[{z6x, z6y}], PlotRange -> All]
```

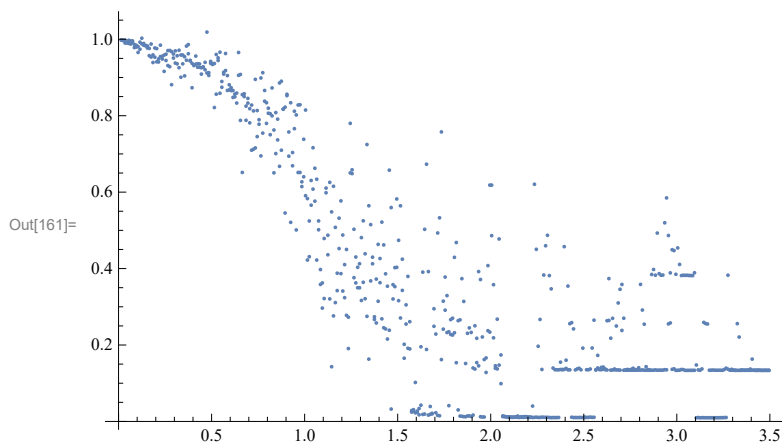


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In[157]:= lengthv = 3490 * 2; sepv = 10;
z6xcycC = Table[0, {i, 1, lengthv / sepv}];
z6ycycC = Table[0, {i, 1, lengthv / sepv}];
For[i = 1, i ≤ (lengthv / sepv), i++,
  tptx = Table[0, {i, 1, sepv + 1}];
  tpty = Table[0, {i, 1, sepv + 1}];
  For[j = 1, j ≤ sepv + 1, j++,
    tptx[[j]] = z6x[[ (i - 1) * sepv + j]];
    tpty[[j]] = z6y[[ (i - 1) * sepv + j]];
  ];
  z6xcycC[[i]] = midv[tptx];
  z6ycycC[[i]] = midv[tpty];
];

In[161]:= ListPlot[Transpose[{z6xcycC, z6ycycC}], PlotRange → All]

```



```

In[164]:= z2crit = {0.02313995, 0.02205658, 0.03864288, 0.03286743, 0.3525314, 0.03549194, 0.02288818,
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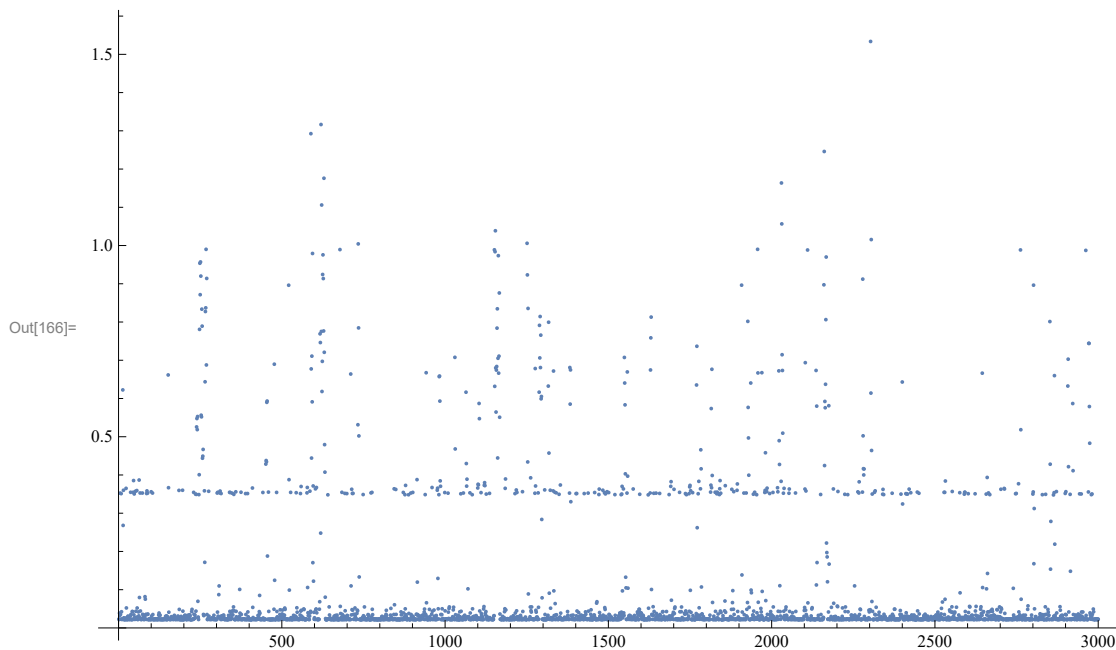
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 0.8173637, 0.7592863, 1.097008, 1.017075, 0.6958186, 0.7537174, 0.5734984, 0.5910683,
 0.8258559, 0.6693332, 0.4783739, 0.7608821, 0.6004041, 0.8096352, 0.8576622,
 0.9933898, 0.9480966, 0.8119056, 0.7541428, 0.5915699, 0.4826915, 0.439146, 0.2984613,
 0.2862117, 0.2110723, 0.2014039, 0.3849964, 0.8647754, 0.8387267, 1.034039, 0.8723838,
 0.7306271, 0.3764553, 0.5807559, 0.3796043, 0.4356575, 0.35237, 0.2955379, 0.3074277,
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 0.5478725, 0.6381512, 0.7261989, 0.656032, 0.595412, 0.5643406, 0.7869911, 0.8502268,

```

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0.5556768, 0.7255084, 0.624403, 0.7652747, 0.5707188, 0.6684234, 0.3678818, 0.2796351,
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```

```
In[168]:= ListPlot[z6crit, PlotRange -> All]
```

