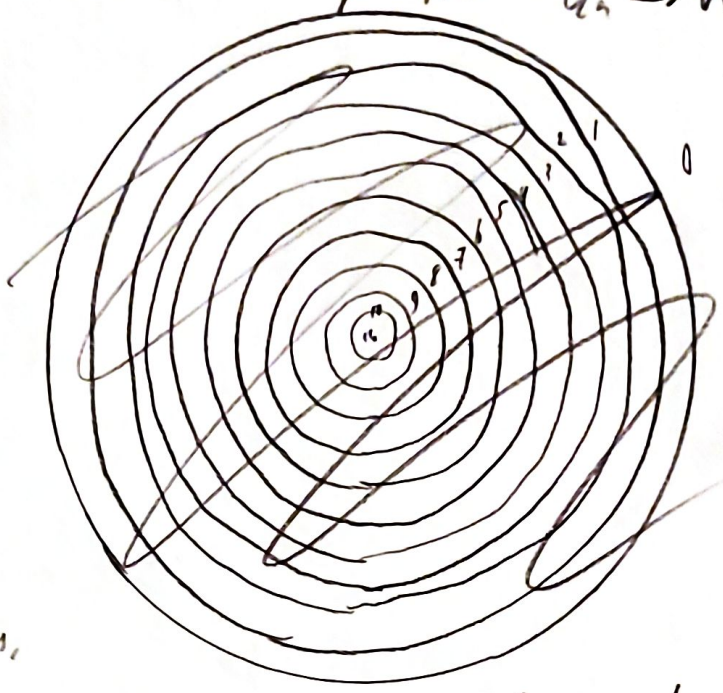
A potential way to visualize ~~a~~ functions over ensembles of graphs.

We know 2 things:

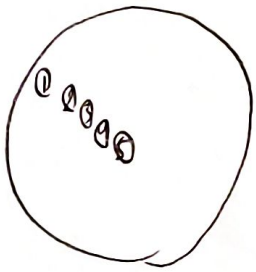
1) The space of graphs is compact under the cut metric, and
2) If W is a graphon and G_n is a sequence of graphs sampled from W in the naive way, then $G_n \to W$ in the cut metric.

Try this:

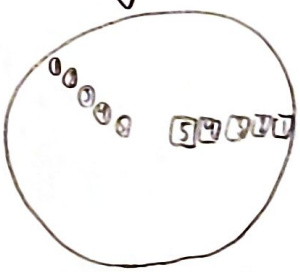


We have a sequence of graphs ~~up to~~ up to 5 nodes,

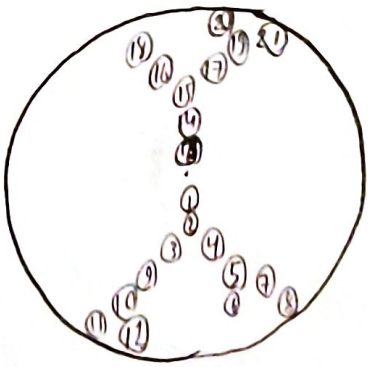
and the convergence can be ~~measured as~~ drawn as



~~A sample~~ two sequences would be like



Now, if we have some random graphs, we could arrange them in "best fit" sequences, something like



Or maybe this would work better on a sphere. I'll need to study the cut metric more.