

In[6]:=

```
SetDirectory[ParentDirectory[NotebookDirectory[]]];
Needs["SSSiCv100`"];
```

Describe the basics of Indexed Concatenation (IC), maybe using Derek's HSC Research Lunch presentation as a starting point.

Describe how the IC can describe an entire (infinite! maybe multiply infinite) causal network generated by a Sessie RuleSet.

Still unknown:

- How to "reduce" (or compress) a network list without using ToNetDifferenceSets.
 - We need this in order to continue on the work started by Jeanna Toulouse and Chris Trana
 - How will these two reductions compare? Can we move directly from one to the other?
- Can the dimension of the network be read directly from the IC reduced form? (Either one)
- Can IC compress the complete "Evolution" or even the TEvolution (tagged evolution) of the Sessie?
- Can IC be applied in general to repeating strings?
- Can IC be applied to musical notation? "What is the IC reduced form of Beethoven's Ninth?" (Or of one of Bach's Concertos?

Perhaps more fundamentally,

- How can the ReduceSetList algorithm be made more reliable?
 - Last year's version only worked about half the time, this new version does better, but needs improvement still.
- We need to step through the algorithm in our meeting, and ask everyone to suggest improvements.
 - NOT the code, just the logic of the steps involved.
 - A couple nice demos are desperately needed.