** CSSS June 2023 **

- *** Definitional mess
- 1. Nominal; Denotationals; Real/propositional (aim at structure and logic: model and reality; theory like definitions)
- 2. D/R ontological without "hasty monism" no need for theories of everything.
- *** History of Complexity

Entropy; Evolution; Computation; Control (non-linear dynamics)

- 1. Prehistory
- 2. Papers

:connections:

- 1. Shannon an Algebra for theoretical genetics, 1940.
- 2. Turing Butler Erewhon;
- 3. Holland Turing; Church; Wright
- 4. Wiener Maxwell;
- *** Nature of Complexity beyond Plato's lucid dream
- 1. Wigner
- 2. Wigner Reversal
- 3. Candidates:

Solaris

Tribbles

- *** Structure of science complexity and machine learning.
- 1. Math science quadrant: theory space
- 2. Path through theory space
- 3. paper to share if of interest:
- *** CSSS Discussion Items
- 1. Definition, History and Domain (foreground and background institutional challenges of this balance)
- 2. Role of mathematics and computation analytical versus algorithmic.
- 3. Life and intelligence (intensive and extensive distinctions)
- 4. Integrative Systems and Plurality of Emergent conflicts (discipline here?)
- 5. Applications and Policy (EE, EPE, etc.)