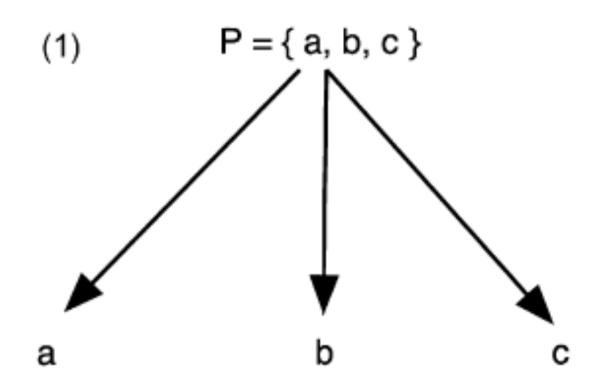
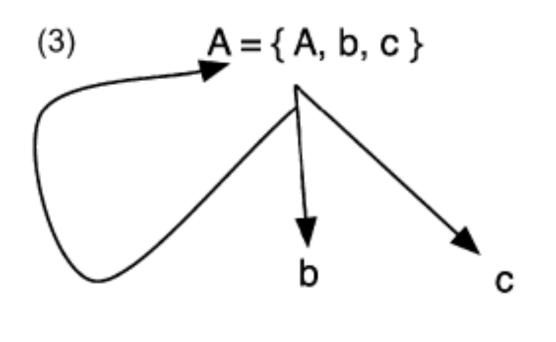
Hyperset theory + Graph theory = Hyperset Graphs (Impredicative Logic)

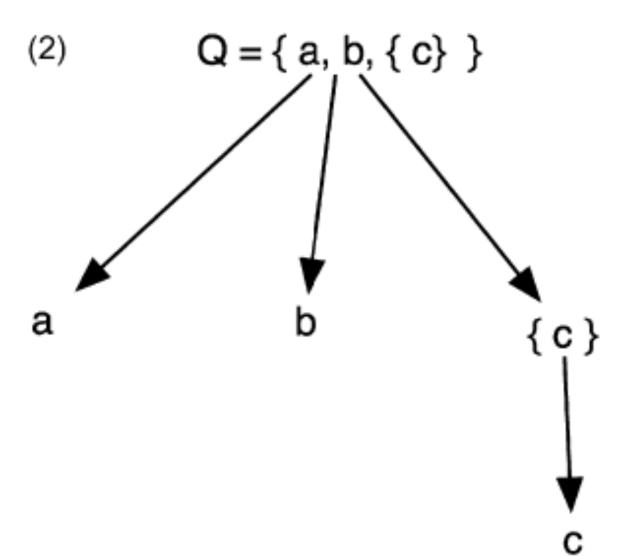
Aczel's Anti-Foundation Axiom (1988) (hyperset theory, circular causality, complexity analysis)

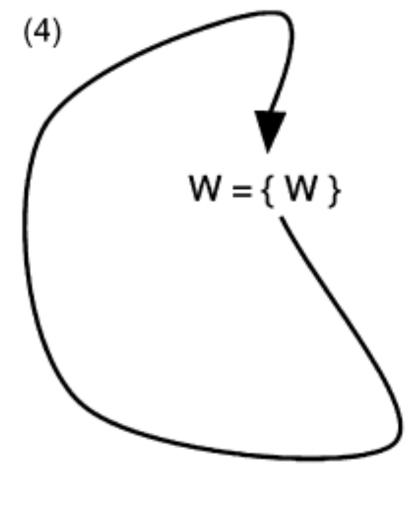




Non well-founded sets:

Definition of a set can contain itself





Hyperset theory + Graph theory = Hyperset Graphs (Impredicative Logic)

behavior = < metabolism, repair > { metabolism } { metabilism, repair } Impredicative loop **Hyperset loop** metabolism = < materials, behavior > repair = < behavior, metabolism > { materials } { materials, behavior } Rosen's definition of a living system { behavior } { behavior, metabolism } materials (metabolism-repair-system)

Fig. 6. Hyperset diagram of Rosen's metabolism-repair system. Functions are represented as ordered pairs containing their domain and range. So f(a) = b is represented as $f = \langle a, b \rangle$.

