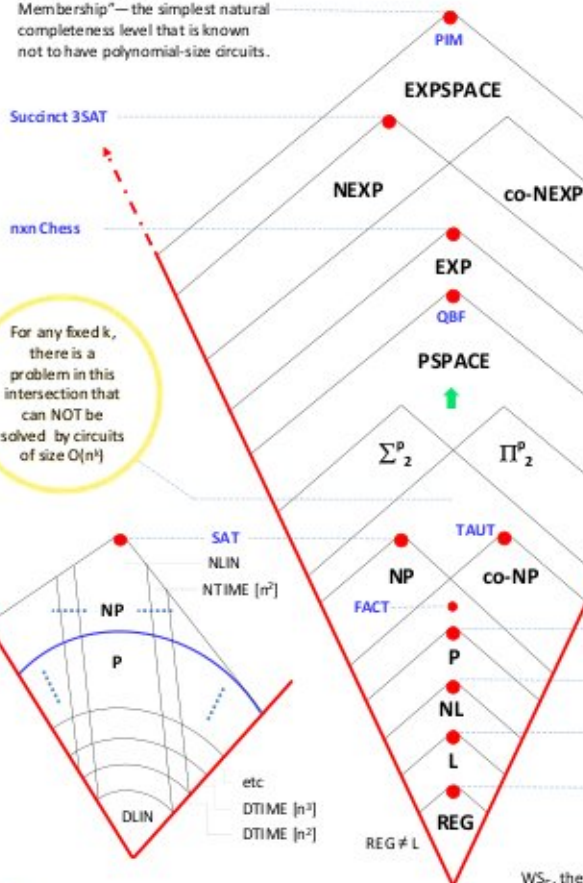
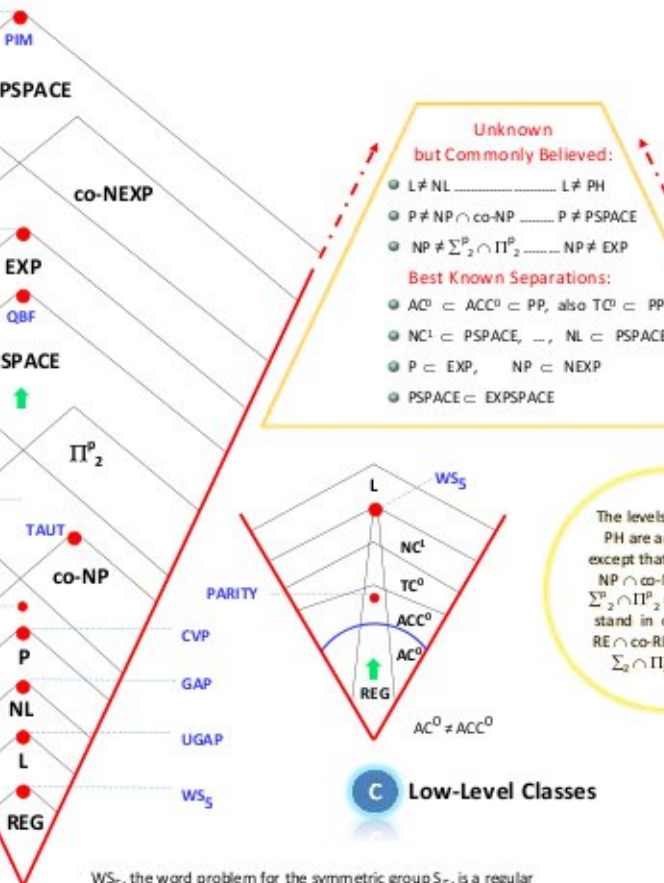


A complete language for EXPSPACE:
PIM, "Polynomial Ideal Membership"—the simplest natural completeness level that is known not to have polynomial-size circuits.



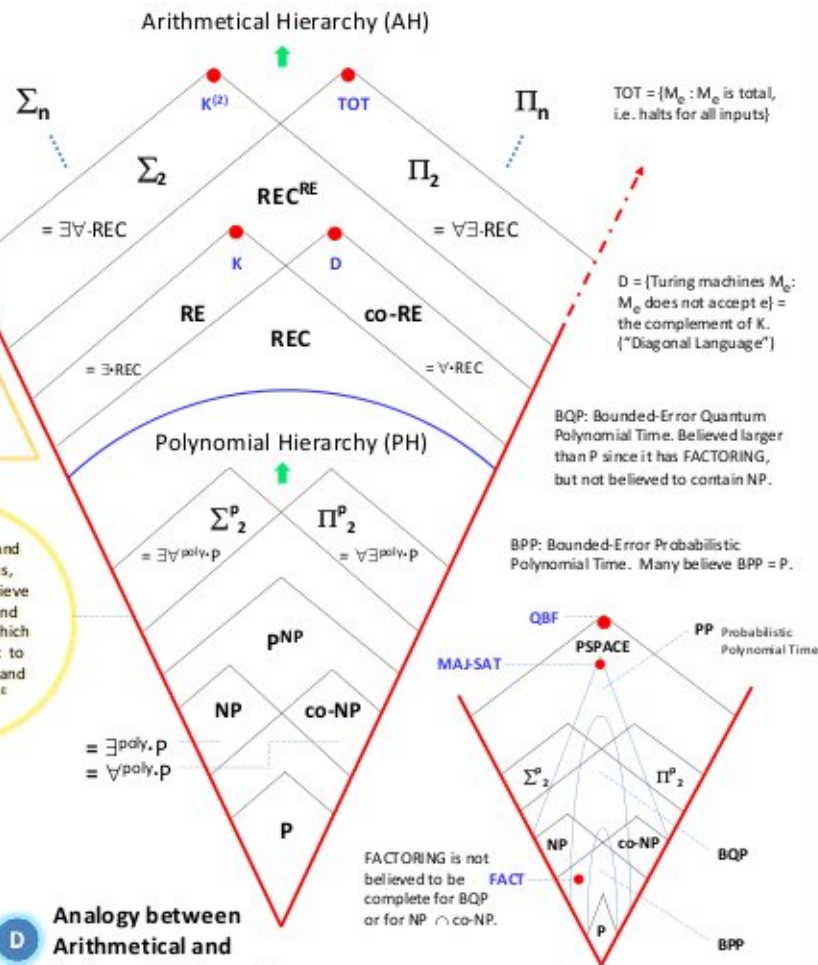
A Deterministic and Nondeterministic Time Hierarchies Within NP



B Complexity "Main Sequence"

C Low-Level Classes

WS_5 , the word problem for the symmetric group S_5 , is a regular language that is complete for NC^1 under AC^0 many-one reductions.



D Analogy between Arithmetical and Polynomial Hierarchies

E Realm of Feasibility?

FACTORIZING is not believed to be complete for BQP or for $NP \cap co-NP$.