

A conceptual-based attribute to connections between theories

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We distill the idea of ‘*concepts*’ from the pioneering work of Alfred Tarski. We argue that, in Tarski’s understanding, a concept is just a relation that can be defined on a given theory using its own language. These concepts define an algebra in a natural way; we refer to it as the *concept algebra* of the theory in hands. This perspective goes back to George Boole in his creation of Boolean algebras.

There is a vast literature deliberating that properties of a theory can be read off from its concept algebra. In this talk, we will introduce a new understating of the interrelationship between theories based on studying some natural algebraic relations between their concept algebras. We will show how this new insight can be used to obtain better understanding of the connections between some particular theories of physics.