

The definability of physical concepts

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Abstract

Our main purpose here is to make some considerations about the definability of physical concepts like mass, force, time, space, spacetime, and so on. Our starting motivation is a collection of supposed definitions of closed system in the literature of physics and philosophy of physics. So, we discuss the problem of definitions in theoretical physics from the point of view of modern theories of definition. One of our main conclusions is that there are different kinds of definitions in physics that demand different approaches. Within this context, we strongly advocate the use of the axiomatic method in order to discuss some issues concerning definitions.

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