

3. What are the building blocks?

Maxwell's house

The general philosophy of “Tonti diagrams”

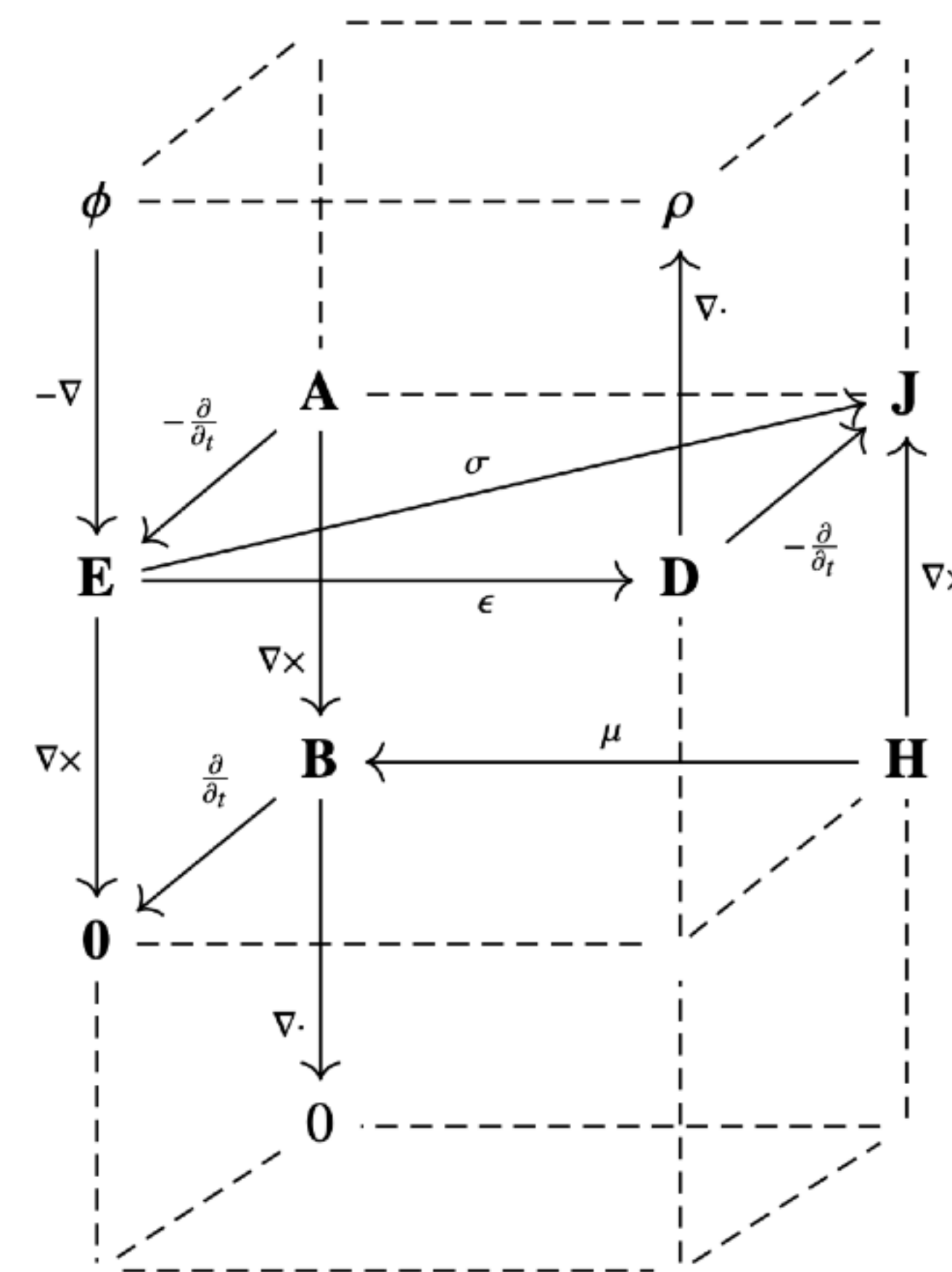
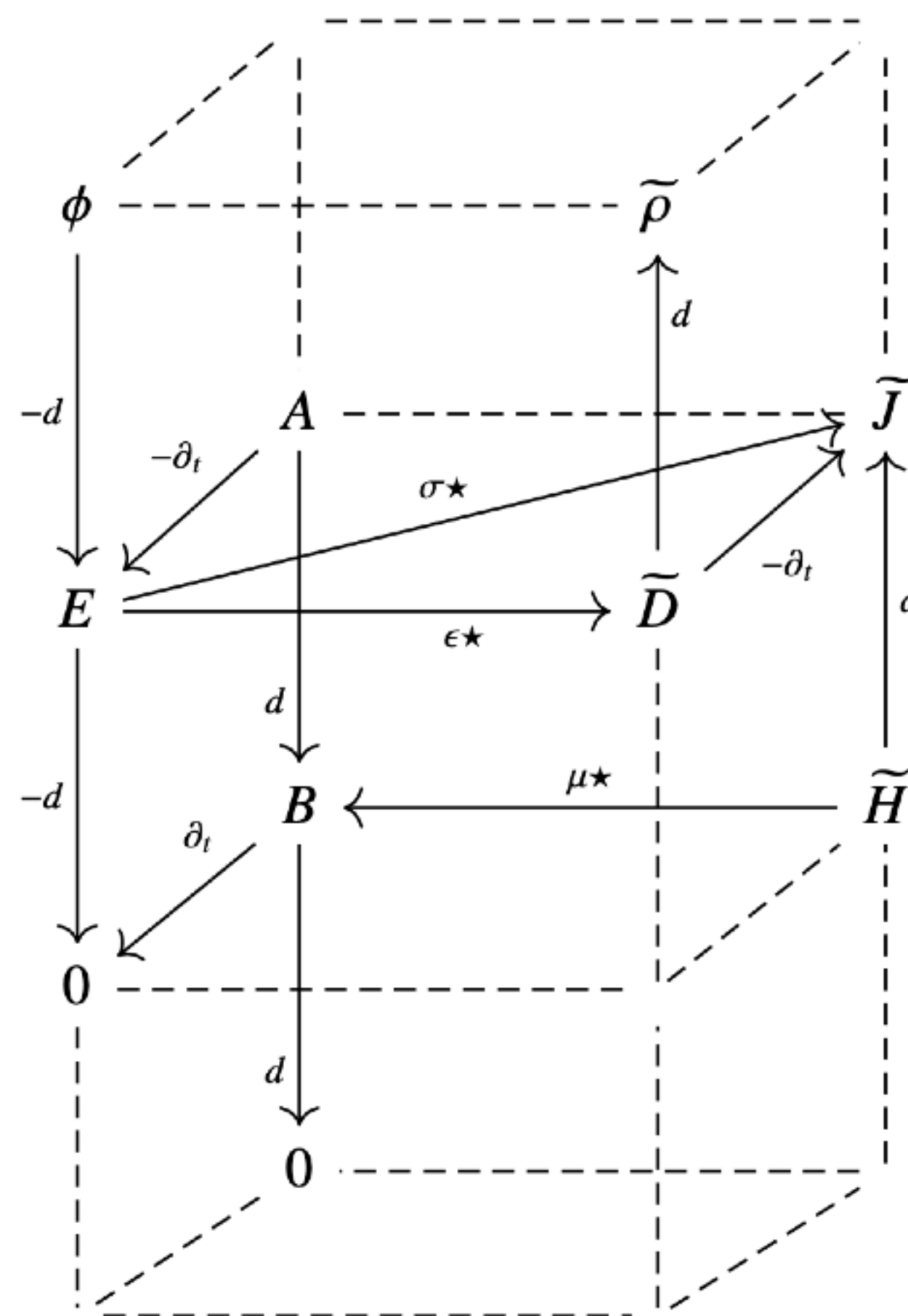
- The main idea: an arrow

$$x \xrightarrow{f} y$$

asserts the equation

$$f(x) = y$$

- The main problem: inconsistent & informal conventions, even within a single diagram



Left: exterior calculus, from Bossavit

Right: vector calculus, from Cortes Garcia et al.