

Review of: "Unified Classical Thermodynamics: Primacy of Dissymmetry Over Free Energy"

Roberto Zivieri¹

¹ University of Ferrara

Potential competing interests: No potential competing interests to declare.

As I wrote in my first report, this is a nice paper emphasizing the primary role of dissymmetry over free energy. The author gives a historical overview of the topic, outlining the relationship between free energy and natural dissymmetry, a question raised and developed by Lord Kelvin in terms of the dissipation of mechanical energy. It is finally suggested and discussed as a new branch of engineering thermodynamics. The author has carefully addressed my previous comments and has made the necessary amendments (apart from discussing the two papers I suggested, recently published in the journal *Entropy*). In my opinion, this paper has even improved its impact and importance in the field, and it can be a benchmark for scientists working in the fields of thermodynamics and statistical physics and, more generally, for scientists interested in the basic laws governing classical physics.