

Review of: "Tailoring the First Law of Thermodynamics for Convective Flows"

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Potential competing interests: No potential competing interests to declare.

The article is well written. I appreciate the efforts put in by the author.

Q.1. Can you kindly provide some practical applications in the context of engineering applications?

As you mentioned, "Can we similarly infer stability from energy considerations for systems that are out of equilibrium?", will you provide some additional remarks related to the same?

"Developing a theory that predicts these nonequilibrium transitions in an equilibrium thermodynamic-like fashion could significantly impact our understanding" Then how does it differ from quasi-static?

What do you mean by 'thermodynamic-like theory' ?