

Energy Labs,

The foundational architecture of the information systems controlling the global nuclear reactor fleet has not seen a paradigm shift since the late 20th century. I am writing to propose a deployment-ready architectural update that drastically reduces the structural and computational load on nuclear energy infrastructure by rewriting the encoding layer of computer systems using established principles of information physics.

A functional, open-source demonstration of this system is fully accessible here:
<https://infoton.ai/infoton-p30>

From a computer science and verification perspective, the software has already achieved full validation. Per the Curry-Howard correspondence, structural self-consistency within a type-safe algorithmic system is functionally identical to a logical proof. Because the underlying physics equations execute flawlessly across variables without collapsing, diverging, or violating conservation laws, the runtime stability itself serves as a constructive proof of mathematical validity.

A thorough technical analysis of the structural risks present in currently fleets as all operate on the byte architecture, alongside the calculations driving this update, is detailed in my paper: *The Speed of the Calculations: An Information-Physics Post-Mortem of Chernobyl and the Modern Reactor Fleet*
<https://doi.org/10.5281/zenodo.20283007>.

While the software stack is fully verified, I recognize that traditional physics frameworks demand empirical hardware validation. To move this into live physical testing, I require cooperation and partnership with Energy Lab to bridge the gap between computational certainty and physical deployment. The result will be technology which exceeds other nation states like the Chinese and allow Utah to win the Energy and technology race.

I look forward to discussing how we can collaborate to implement this vital infrastructure update.

Sincerely,

January Walker

Executive

<https://infoton.ai>