

Title: Quantum Reference Frames and Uncertainty

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Abstract: Qunatum Information Theory

1 The Importance of Frames of Reference

Can We Usually Just Ignore Frames?

In the context of Newtonian mechanics or special relativity, we rarely forget the role of frames of reference, but we usually leave it implicit.

A Simple Question?

If the train requires 15 hours to get from Baltimore to Chicago, and 40 hours to get from Chicago to Seattle, what is its average speed for the entire journey?

The diligent student's answer: $50\frac{1}{5}$ mph.

