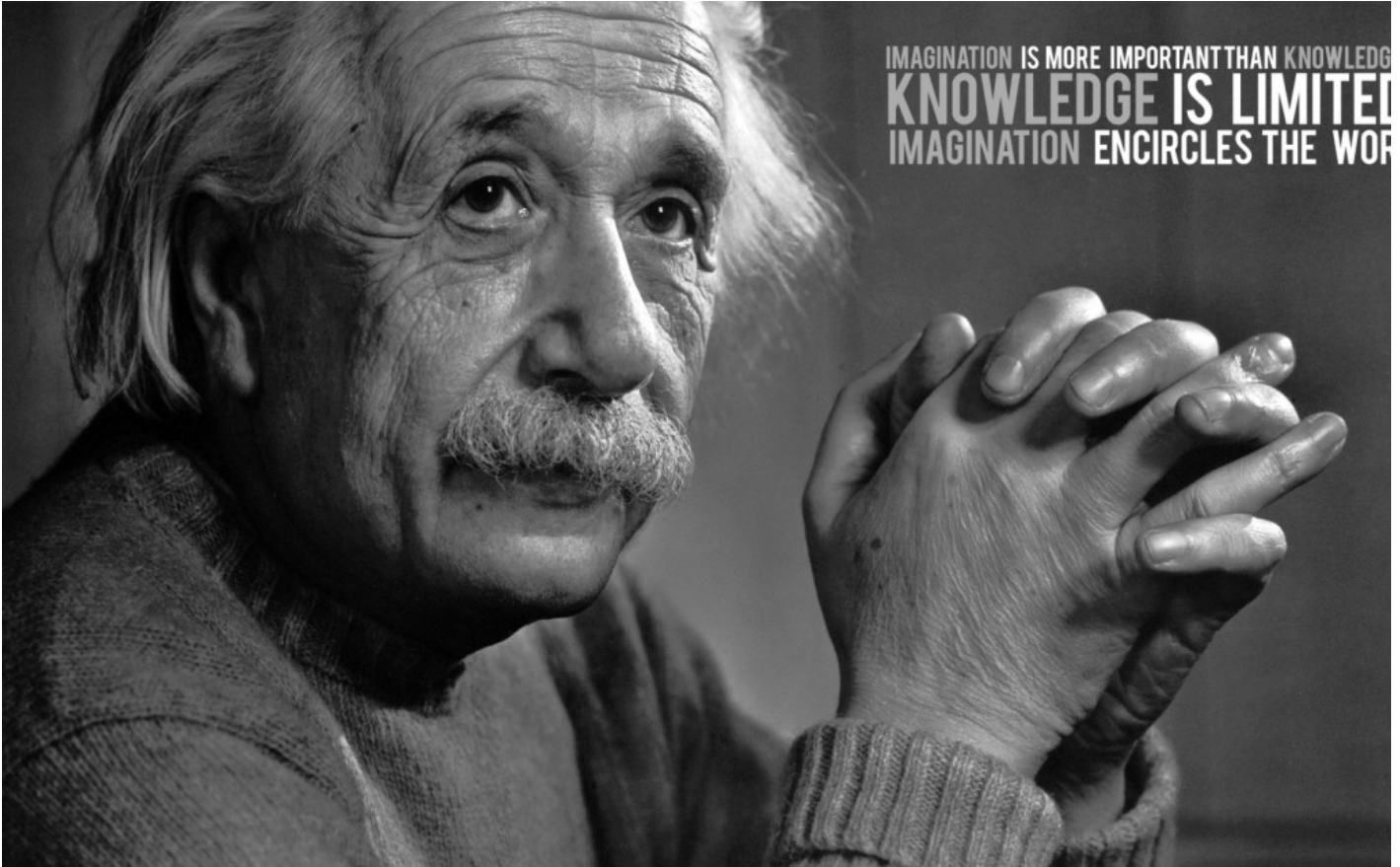


Briefly explain why the electromagnetic waves rather than other known waves are



Father of STR

Answer: Waves other than Electromagnetic Waves require a medium and hence for each one of them there exists a special frame namely the one where the medium at infinity is at rest. Thus the velocity of such waves is not the same in each inertial frame and that presents no violation of the Principle of Relativity. The EM waves require no medium, the velocity of propagation is the same in all inertial frames and the laws of transformations contained in the Special Theory of Relativity respect this unique wave.



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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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Briefly explain why the electromagnetic waves rather than other known waves are central to the special theory of relativity. | 2

Briefly explain why the electromagnetic waves rather than other known waves are central to the special theory of relativity. | 3

Briefly explain why the electromagnetic waves rather than other known waves are central to the special theory of relativity. | 4

Briefly explain why the electromagnetic waves rather than other known waves are central to the special theory of relativity. | 5

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