Relativistic lifetime, energy and Doppler shift

GRE Subject Test · GRE Physics · Vocabulary in context

Word	Example
time dilation /taɪm daɪˈleɪʃn/	**Time dilation** lets fast muons reach the ground.
proper time /ˈprɒpə taɪm/	The travelling particle's own clock measures its **proper time**.
length contraction	**Length contraction** shortens a moving rod along its motion.
invariant /ɪnˈveərɪənt/	The speed of light is **invariant**: every observer measures the same value.
invariant mass	The **invariant mass** of a system is the same in every frame.
→ **redshift** /ˈredʃift/	Light from a receding galaxy shows a **redshift**.

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