

# Einstein Lectures

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## Time Dilation and Particles

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120 PHYSICS

### **Abstract**

Special relativity implies that clocks tick more slowly in moving reference frames. In everyday life the effect is practically unnoticeable: you can't stay young by spending a lot of time in supersonic jets. But for relativistic particles, time dilation makes a huge difference. I will give some examples demonstrating how time dilation is part of the everyday life of an experimental particle physicist.