

Relativistic particle physics

- Relativistic particle physics studies particles moving at speeds close to light
- It reveals that mass and energy are interchangeable, encapsulated by Einstein's $E=mc^2$
- As particles accelerate near light speed, their mass effectively increases, requiring more energy to accelerate further
- The field is crucial for understanding fundamental particles and forces in the universe

Practical example: Particle accelerators

- Relativistic particle physics focuses on particles moving at speeds close to the speed of light, where Einstein's theory of relativity becomes significant
- In particle accelerators, such as the Large Hadron Collider, particles are accelerated to immense speeds, nearing light speed
- This extreme acceleration allows the particles' behavior to be studied under relativistic conditions, exploring aspects like mass increase and time dilation
- These experiments help in understanding the fundamental constituents of matter and the forces governing them

Relativistic Particle Physics

Christian Drosten



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