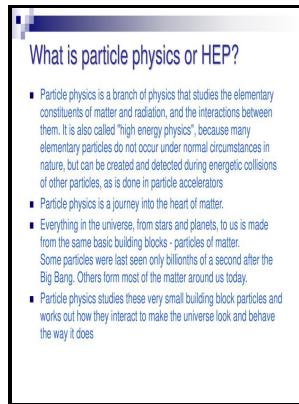


# Introduction to high energy physics

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Description: -



## What is particle physics or HEP?

- Particle physics is a branch of physics that studies the elementary constituents of matter and radiation, and the interactions between them. It is also called "high energy physics", because many elementary particles do not occur under normal circumstances in nature, but can be created and detected during energetic collisions of other particles, as is done in particle accelerators.
- Particle physics is a journey into the heart of matter.
- Everything in the universe, from stars and planets, to us is made from the same basic building blocks - particles of matter. Some particles were last seen only billionths of a second after the Big Bang. Others form most of the matter around us today.
- Particle physics studies these very small building block particles and works out how they interact to make the universe look and behave the way it does.

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Particles (Nuclear physics)Introduction to high energy physics

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Notes: Bibliography: p. 344-347.

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