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Particle physics (also known as high energy physics) is a branch of physics that studies the nature of the particles that constitute matter and radiation.

## **Particle physics - Wikipedia**

The new experiments underway at the Large Hadron Collider at CERN in Switzerland may significantly change our understanding of elementary particle physics and, indeed, the universe.

## **Elementary Particle Physics in a Nutshell: Christopher G**

There is a natural connection between particle physics and representation theory, as first noted in the 1930s by Eugene Wigner. It links the properties of elementary particles to the structure of Lie groups and Lie algebras.

## **Particle physics and representation theory - Wikipedia**

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"When action is not least," C. G. Gray and Edwin F. Taylor, American Journal of Physics, Vol. 75, No. 5, May 2007, pages 434-458. Action is a minimum along a sufficiently short worldline in all potentials and along worldlines of any length in some potentials.

## **Edwin F. Taylor - Principle of Least Action**

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The  $\phi^4$  model is coupled to an impurity in a way that preserves one-half of the BPS property. This means that the antikink-impurity bound state is still a BPS solution, i.e., a zero-pressure solution saturating the topological energy bound.

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