

### **gauge theories in particle pdf**

In physics, a gauge theory is a type of field theory in which the Lagrangian is invariant under certain Lie groups of local transformations.. The term gauge refers to any specific mathematical formalism to regulate redundant degrees of freedom in the Lagrangian. The transformations between possible gauges, called gauge transformations, form a Lie group—referred to as the symmetry group or ...

### **Gauge theory - Wikipedia**

In particle physics, a gauge boson is a force carrier, a bosonic particle that carries any of the fundamental interactions of nature, commonly called forces. Elementary particles, whose interactions are described by a gauge theory, interact with each other by the exchange of gauge bosons—usually as virtual particles.. All known gauge bosons have a spin of 1.

### **Gauge boson - Wikipedia**

[1] The small changes in the naming scheme for hadrons, especially for states commonly referred to in the literature as X, Y or Z, will be implemented in the PDG Listings starting with the 2018 edition. The Listings from the current 2017 update are still based on the previous scheme described here.

### **Particle Data Group - 2017 Reviews, Tables, Plots**

We present a first principles derivation of the anomaly polynomials of 4d  $\mathcal{N} = 2$  class  $\mathcal{S}$  theories of type  $A_{N-1}$  with arbitrary regular ...

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