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particle physics or high energy physics is the study of fundamental particles and forces that constitute matter and radiation the field also studies combinations of elementary particles up to the scale of protons and neutrons while the study of combination of protons and neutrons is called nuclear physics elementary particle physics is the study of fundamental particles and their interactions in nature those who study elementary particle physics the particle physicists differ from other physicists in the scale of the systems that they study particle physics study of the fundamental subatomic particles including both matter and antimatter and the carrier particles of the fundamental interactions as described by quantum field theory particle physics is concerned with structure and forces at this level of existence and below the standard model of particle physics is the theory describing three of the four known fundamental forces electromagnetic weak and strong interactions excluding gravity in the universe and classifying all known elementary particles the field of particle physics was developed through observations that could not be initially explained but which led researchers to deepen their investigations and develop conclusions led to an entire sub discipline of physics with substantial applications across science and industry our best understanding of how these particles and three of the forces are related to each other is encapsulated in the standard model of particle physics developed in the early 1970s it has successfully explained almost all experimental results and precisely predicted a wide variety of phenomena course description this is an introductory graduate level course on the phenomenology and experimental foundations of nuclear and particle physics including the fundamental forces and particles as well as composites emphasis is on the experimental establishment of the leading models and the theoretical tools and experimental show more a new map of the standard model of particle physics scientists have created a new way of visualizing the

fundamental constituents of matter and their interactions based on a novel approach to quantum field theory the map reveals new insights into the structure and dynamics of the subatomic world and could help guide future experiments and discoveries further reading to learn more about the standard model of particle physics we suggest the following sources the particle adventure for a fun and interactive exploration of the world of subatomic particles professor matt strassler s blog about particle physics the movie particle fever particle physics is the study of the elementary building blocks of matter and radiation and their interaction the fundamental particles are summarised by the standard model the standard model of particle physics is our fundamental description of the stuff in the universe it doesn t answer why anything exists but does describe what exists and how it behaves and broadly defined particle physics aims to answer the fundamental questions of the nature of mass energy and matter and their relations to the cosmological history of the universe the standard model of particle physics is scientists current best theory to describe the most basic building blocks of the universe it explains how particles called quarks which make up protons and neutrons and leptons which include electrons make up all known matter the standard model of particle physics which classifies elementary particles into several groups is at the core of modern physics in this model three of the four fundamental forces of physics are described along with gauge bosons the particles that mediate those forces hidden structure what is a particle it has been thought of as many things a pointlike object an excitation of a field a speck of pure math that has cut into reality but never has physicists conception of a particle changed more than it is changing now elementary particles are the basic stuff of the universe they are also deeply strange what is particle physics protons electrons neutrons neutrinos and even quarks are often featured in news of scientific discoveries all of these and a whole zoo of others are tiny sub atomic particles too small to be seen even in microscopes while molecules and atoms are the basic elements of familiar substances that we can see and particle physics there s a new measurement of muon magnetism what it means isn t clear the measurement from the muon g 2 experiment is the most precise yet but recent theoretical in the physical sciences a particle or corpuscle in older texts is a small localized object which can be described by several physical or chemical properties such as

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