Series of lectures by *Alexander Khodjamirian* (Uni.Siegen) at Theory Division of YerPhi

Topic: "Quantum Chromodynamics and Hadrons"

Lecture 1: Mo, 14.05 Lecture 2: We, 16.05 Lecture 3: Fr, 18.05 Lecture 4: Mo, 21.05

Abstract:

Introduced the basic elements of quantum chromodynamics (QCD). The Lagrangian, effective coupling and symmetries of QCD ware discussed. The main properties of hadrons, strongly interacting bound states of quarks, antiquarks and gluons, their observed spectrum and flavour content ware overviewed. QCD-based methods used to calculate characteristics of hadrons ware introduced. These lectures ware oriented for master and PhD students spezializing in theoretical particle physics and having a basic knowledge of quantum field theory.