Friday Dec. 6th At 2 pm



Meson Structure from a Light-front Hamiltonian Approach

Abstract:

In this talk I will first introduce the quantum field theory quantized on the light-front and explain why it is an ideal framework to describe the structure of relativistic bound states. Next I will introduce the effective Hamiltonian approach which is employed to describe the structure of hadrons. I will mainly focus the meson systems such as the heavy quarkonia and the light mesons (including the pion and the kaon). Specifically I will present the results on the mass spectrum, the decay constants, the rms radii, the parton distribution amplitude and the parton distribution functions and compare with the corresponding experimental data. Finally I will report preliminary results on the gluon content in the mesons.

CYCLOTRON

_

Dr. Xingbo Zhao

_

Professor of Physics

_

Institute of Modern Physics, Lanzhou

_

CYCLOTRON INSTITUTE

Room 228

Refreshments will be served at 1:45 pm

