



## On Model-Independent Analyses of Elastic Hadron Scattering

http://www.firstlight.cn 2007-06-30

By means of an almost model-independent parametrization for the elastic hadron-hadron amplitude, as a function of the energy and th e momentum transfer, we obtain good descriptions of the physical quantities that characterize elastic proton-proton and antiproton-proton sc attering (total cross section, r parameter and differential cross section). The parametrization is inferred on empirical grounds and selected acc ording to high energy

theorems and limits from axiomatic quantum field theory. Based on the predictive character of the approach we present predictions for the above physical quantities at the Brookhaven RHIC, Fermilab Tevatron and CERN LHC energies.

存档文本

我要入编 | 本站介绍 | 网站地图 | 京ICP证030426号 | 公司介绍 | 联系方式 | 我要投稿

北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn