V. Krejčiřík

(University of Maryland, USA)

Nucleon-nucleon scattering in the $N_c \to \infty$ limit

Abstrakt

In this talk, the implication of the extreme large N_c limit for nucleon-nucleon scattering is examined. Several arguments will be shown strongly suggesting that the logarithm of a typical S-matrix element is proportional to N_c (both its real and imaginary part). From there, an exact formula for the nucleon-nucleon cross section is derived and an interesting result that determines the inelastic cross section to be exactly 1/8 of the total cross section emerges.

Seminář se koná ve středu 12. 2. 2014 v 10:30 hod. v zasedací místnosti ÚJF Řež

A. Cieplý/otf