



Contribution ID: 55

Type: **not specified**

Diffractive dijets: breakdown of factorization

Data on diffractive dijet production reveal a dramatic failure of predictions based on diffractive factorization. The main source of factorization breaking is a principal difference between the mechanisms of diagonal diffraction in DIS and off-diagonal diffractive hadronic collisions. Single-diffractive excitation of two high- p_T back-to-back jets is calculated within the dipole approach. The dominant mechanism of this diffractive process is semihard - semisoft, differently from dijet production in DIS, which is hard dominated. Results of calculation are in a good accord with data.

Authors: KOPELIOVICH, Boris (UTFSM); PASECHNIK, Roman (Lund university); Dr POTASHNIKOVA, Irina (Universidad Tecnica Fedrico Santa Maria, Valparaiso, Chile)

Track Classification: QCD and parton saturation physics