

HADRON PRODUCTION IN pp AND AA COLLISIONS WITHIN SELF-SIMILARITY APPROACH

Thursday, 14 July 2022 18:09 (20 minutes)

The self-similarity approach is applied to study the hadron production in mid-rapidity region in pp and AA collisions. Our calculations describe satisfactorily the experimental data on the inclusive p_T spectra of pions and kaons produced in pp and central $BeBe$ collisions and their ratios as a function of initial energy \sqrt{s} . We collect also data on ratios of baryon to anti-baryon yields in pp and AA collisions as a function of \sqrt{s} and find the similarity of these ratios for different colliding nuclei.

The speaker is a student or young scientist

Yes

Section

1. Experimental and theoretical studies of nuclear reactions

Primary authors: Dr MALAKHOV, Alexander; Dr LYKASOV, Gennady; ZAITSEV, Andrei

Presenter: ZAITSEV, Andrei

Session Classification: Intermediate and high energies, heavy ion collisions