HIJING++ a HIC Monte Carlo for the Future (Parallel) Generations

Gergely Gábor Barnaföldi[1], Gábor Bíró[1], Szilveszter Harangozó[1], Miklós Gyulassy[2], Péter Lévai[1], Gábor Papp[3], Xin-nian Wang[4], Guoyang Ma, Ben-wei Zhang[5]

[1]Wigner Research Centre for Physics, Budapest
[2]Columbia University, USA
[3]Eötvös Lóránd University, Budapest
[4]Lawrence Berkeley National Laboratory, USA
[5]Central China Normal University, Wuhan, China

gergely.barnafoldi@cern.ch, gabor.biro@cern.ch, szilveszter.harangozo@cern.ch, gyulassy@phys.columbia.edu, levai.peter@wigner.mta.hu, pg@elte.hu, xnwang@lbl.gov, happyymxmg@hotmail.com, bwzhang@mail.ccnu.edu.cn

Results with the new HIJING++ will be presented here for hadron production in high-energy heavy ion collisions. The recently developed HIJING++ version based on the latest version of PYTHIA8 and contains all the nuclear effects has been included in the HIJING2.1. We also included an improved version of the shadowing parametrization and jet quenching.

Here we summarize the mayor changes of the new program code beside the comparison between experimental data.