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Recent results with HYDJET++ model for heavy-ion collisions

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The HYDJET++ event generator is a phenomenological model of heavy-ion collisions that treats the collision process as a combination of a soft hydro-type state and a hard state resulting from hard parton scattering. On the one hand, it allows one to quickly simulate relativistic heavy-ion collisions, and on the other hand, it reproduces and describes a number of experimental phenomena in the soft and hard sector. It also allows you to study many features of the interaction as interplay of soft and hard processes. Here we present some selected results of recent studies. Basically, new results on the correlation of elliptical flows at small and large transverse momenta at LHC energies are described. Some current studies of the charge balance function at LHC energies and the A -dependence of the flow in heavy-ion collisions are also discussed.

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