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Type: Poster

High-Energy Jet Interaction Monte Carlo for the Future Generations: HIJING++

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The high luminosity (HiLumi) upgrade of the Large Hadron Collider will enable us for more detailed, high-precision experimental analysis of the heavy ion collisions. Testing both the new theoretical models and performing high-statistics simulations require novel, easy-to-use, fast, extendable generators.

The recently developed HIJING++ version is based on the latest version of PYTHIA8 and contains all the nuclear effects has been included in the final HIJING2.552 version, including a new version of the shadowing parametrization and jet quenching module.

Results with the HIJING++ are presented for high-energy heavy ion collisions from small to large systems from pp to AA collisions, including the recent XeXe and PbPb data. We also present the extended performance and benchmark test of the generator.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

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