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MUSIC+UrQMD : A hybrid model for heavy ion collision

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We present a hybrid model of hydrodynamics and Boltzmann transport model for heavy ion collision. Even though hydrodynamics is successful in explaining experimental results such as particle spectra and geometric flows, it is incomplete in the sense that hadronic secondary collisions and decays after freeze-out are not fully taken into account. We discuss development of MUSIC+UrQMD model by us, its implications on properties of QGP matter and further improvements.

Primary author: RYU, Sangwook (McGill University)

Co-authors: Dr SCHENKE, Bjoern (Brookhaven National Lab); GALE, Charles (McGill University); YOUNG, Clint (McGill University); JEON, Sangyong (McGill University)

Presenter: RYU, Sangwook (McGill University)

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