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## **Time evolution of EOS and contribution of thermal dilepton at FAIR energy using Bjorken hydrodynamics**

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We have estimated initial temperature and chemical potential of the QGP system, relevant for FAIR energy, using Bjorken hydrodynamics.

We have also calculated time evolution of temperature, chemical potential as well as the equation of states of the QGP system. Finally, we have estimated invariant-mass distribution of thermal dilepton for quark antiquark annihilation process.

This thermal dilepton produces a continuum background which is important in the intermediate invariant mass region ( $1.4 - 3\text{GeV}$ ).

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