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Response of QGP to two hard partons

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We perform (3+1)-dimensional ideal hydrodynamic calculation with source terms that describe energy and momentum deposition of hard partons in static quark-gluon plasma and study not only QGP response to one parton, but also interplay of perturbations due to two leading particles propagating in various directions. Energy deposition is described by a simple Bethe-Bloch model which leads to an explosive burst of energy and momentum at the end of the trajectory of the parton. Dependence of the response on the equation of state is also discussed. The pairs of hard partons induce flow of energy and momentum density in medium which depend on initial directions of the partons.

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