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Quarkonium suppression in non-equilibrium quark-gluon plasma

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Quarkonium suppression in quark-gluon plasma has been investigated since original work by Matsui and Satz [1]. This topic remains actual due to the need of quark-gluon plasma diagnostics. In fact, both quarkonium suppression in quark-gluon plasma and recombination during hadronisation remain to be key open questions [2]. The bound state of quarkonium is theoretically well investigated in the case of equilibrium quark-gluon plasma [3]. However, the experimentally produced quark-gluon plasmas is strongly non-equilibrium. Therefore, in this work we present results for the quarkonium suppression in streaming quark-gluon plasmas. For this propose we use the concept of dynamical screening using the dielectric function of collisional quark-gluon plasma.

[1] T. Matsui and H. Satz, Physics Letters 178, 416 (1986)
[2] Jurgen Schukraft, Nuclear Physics A 967, 1 (2017)
[3] R. Rapp and X. Du, Nuclear Physics A 967, 216 (2017)

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