Thermal Dileptons from Quark and Hadron Phases of an Expanding Fireball ◇

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A fireball model with time evolution based on transport calculations is used to examine the dilepton emission rate of an ultra-relativistic heavy-ion collision. We assume a transition from hadronic matter to a quark-gluon plasma at a critical temperature T_C between $130--170\,MeV$. We include thermal corrections to the hadronic spectra below T_C and use perturbation theory above T_C. The sensitivity of the spectra will respect to the freeze-out temperature, the initial fireball temperature and the critical temperature is investigated.

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