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## **Heavy quark in-medium evolution and sophisticated description of J/psi productions at RHIC and LHC**

When extending higher energy regimes such as those reached by the LHC experiments, heavy quarks become ultra-relativistic as well and thus are expected to behave similarly as light partons. Transport models such as Langevin approach incorporated collisional and radiative energy loss corrections has been used to simulated the in-medium evolution of heavy quarks. For J/psi productions, there is still lack of a realistic transport model simulation considering both charm quark in-medium energy loss and the regeneration contribution. Our goal is to fill the blank and improve the J/psi research to a more sophisticated level.

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