

## **Quarkonia production in cold and hot matters**

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Quarkonia production is supposed to be sensitive to the formation of a quark gluon plasma, in various ways such as color screening, quark recombination... It is also observed to be affected by normal nuclear effects such as gluon shadowing, absorption... I will review the current status of quarkonia measurements at RHIC and make the necessary comparisons to SPS data and theoretical predictions.