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Review of quarkonium production: status and prospects

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Production cross sections of heavy quarkonia are considered as useful tools to study various aspects of QCD. Unfortunately, the mechanism of quarkonium production itself remains elusive to this day. Even analyses based on the same formalism can lead to different descriptions of the production process and give contradicting predictions of processes involving heavy quarkonia. In this talk, we review the current status of theoretical approaches and discuss possible strategies that may improve our understanding of heavy quarkonium production.

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