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Investigating Quarkonium Physics

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Quarkonia are bound states formed by a heavy-quark pair. They are commonly described within the framework of non-relativistic QCD. Yet, this description is not sufficient to fully exploit data involving quarkonium production, which still hide precious information and call for theoretical improvements. In this talk, I will try to give a (biased) perspective on what quarkonium physics can teach us, how it probes QCD at energy scales different from other particles (e.g., light mesons, Higgs, ...), thereby providing complementary information, and what the challenges ahead are.

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