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Conventional quarkonia: few experimental ideas

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The quarkonium physics has developed a double nature in the past decade. While the spectrum above the open flavour threshold is revealing an increasing number of unexpected states of exotic nature, the narrow states below the threshold are an ideal environment to test the QCD effective field theories at the limits of their precision. The current generation of experiments, like Belle II, BESIII and LHCb offer a unique, and maybe last chance to this kind of study. We will present here the experimental prospects on the study of the narrow quarkonia structure, with a focus on the bottomonium sector. The search for rare decays and the opportunities to perform precision measurements of the ground states parameters will be discussed, together with an overview of the opportunities to investigate the light mesons and baryons properties offered by the study of the quarkonium inclusive annihilation.

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