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Modeling new XYZ states at JPAC

The past decade witnessed a remarkable proliferation of exotic quarkonium-like resonances discovered at accelerators. In particular, the observed charged states are clearly not interpretable as QQbar mesons. Notwithstanding the considerable advances on the experimental side, conflicting theoretical descriptions do not seem to provide a definitive picture about the nature of the so-called XYZ particles. We show how to interpret data in terms of compact four-quark particles (tetraquarks), and how the role played by thresholds can be taken into account. We also summarize the other efforts of the Joint Physics Analysis Center (JPAC) in hadron spectroscopy.

Summary

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