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In this talk we report on two recent works about the $Z_c(3900)$ resonance. A coupled channel T-matrix is used in the description of the $D^* \bar{D}$ and $J/\psi \pi$ spectra in which the $Z_c(3900)$ peak has been seen. The data can be well reproduced in two different scenarios, in which the $Z_c(3900)$ is a resonance or a virtual state. We also put this coupled channel T -matrix in a finite box, with the aim of comparing with recent lattice QCD simulations.

Summary

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