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## On the $Z_{cs}(3985)$ and $X(3960)$ states: towards HQSS and $SU(3)$ multiplet descriptions

*Thursday 27 October 2022 19:00 (30 minutes)*

In this talk we will discuss our recent works (2201.08253 and 2207.08563) in which we make analyses of several  $X$  and  $Z$  states. In the first part of the talk, we present a combined study of the BESIII spectra in which the  $Z_c(3900)$  and  $Z_{cs}(3985)$  states are seen, assuming that both are  $SU(3)$  partners. In the second part, a step further is taken and we analyze the full heavy quark spin and light flavor multiplets arising by considering as inputs the  $X(3872)$ ,  $Z_c(3900)$ , and the  $X(3960)$  recently claimed by LHCb in the  $D+s$   $D-s$  spectrum.

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