

## On the recent states $Z_{cs}(3985)$ and $X(3960)$

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.

**Primary author:** ALBALADEJO SERRANO, Miguel (Universidad de Murcia)

**Co-authors:** Prof. GUO, Feng-Kun (Institute of Theoretical Physics, Chinese Academy of Sciences); NIEVES, JUAN MIGUEL NIEVES PAMPLONA; DU, Menglin (IFIC (CSIC & Valencia U.)); JI, Teng (ITP-CAS (Beijing)); DONG, Xiang-Kun (ITP-CAS (Beijing))

**Presenter:** ALBALADEJO SERRANO, Miguel (Universidad de Murcia)

**Track Classification:** Spectroscopy of hadrons